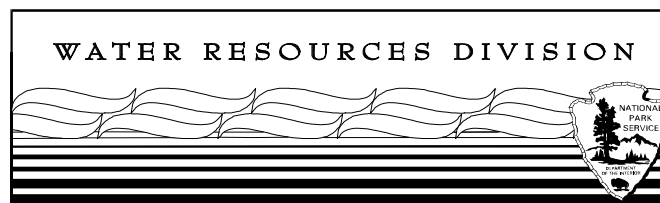

BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

Bighorn Canyon National Recreation Area



WATER RESOURCES DIVISION AND SERVICEWIDE INVENTORY AND MONITORING PROGRAM



*National Park Service - Department of the Interior
Fort Collins - Denver - Washington*

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BASELINE WATER QUALITY DATA
INVENTORY AND ANALYSIS
BIGHORN CANYON NATIONAL RECREATION AREA

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-98/164

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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Bighorn Canyon National Recreation Area (BICA) from six of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) water quality database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); (5) Water Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's (NPS) Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze surface water quality data for all units of the National Park System containing significant water resources. The primary goal of the project is to provide descriptive water quality information in a manner and format that is both consistent with the goals of the Servicewide Inventory and Monitoring Program and useable by park resource managers. The document provides: (1) a complete inventory of all retrieved water quality parameter data, water quality stations, and the entities responsible for the data collection; (2) descriptive statistics and appropriate graphical plots of water quality data characterizing period of record, annual, and seasonal central tendencies and trends; (3) a comparison of the park's water quality data to relevant EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis (IDEA) to determine what Servicewide Inventory and Monitoring Program "Level I" water quality parameters have been measured within the study area. Accompanying the report are disks containing digital copies of all data used in the report, as well as all components of the report (tables, figures, etc.).

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located five industrial/municipal dischargers; one drinking water intake; 16 active or inactive U. S. Geological Survey (USGS) water gages (including stream and lake), and seven water impoundments. The results of the STORET retrieval for the study area yielded 73,531 observations for 397 separate parameters collected by the NPS, USGS, EPA, Wyoming Department of Environmental Quality, and Montana Department of Environmental Quality at 210 monitoring stations from 1901 through 1997[†]. Approximately 53 percent of the 73,531 observations within the study area were collected by the USGS from 1901 through 1997. Of the 210 monitoring stations, 87 stations were located within the park boundary (see Station Period of Record Tabulation). One of these 210 monitoring stations contained data locked by the EPA^{††}. These locked data are not included in the 73,531 total observations retrieved from STORET for the BICA study area. Two other stations within the study area (one within the park boundary) were established but contained no data.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Sixteen stations within the study area (eight within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the park boundary are: (1) Bighorn River near St. Xavier, MT (BICA 0180); (2) Bighorn Lake below Horseshoe Bend (BICA 0046); (3) Bighorn Lake at Yellowtail Dam (BICA 0174); (4) Bighorn Lake ten miles from dam (BICA 0132); and (5) Bighorn Lake 20 miles from dam (BICA 0099). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Bighorn River at Kane, WY (BICA 0002); (2) Shoshone River near Lovell, WY (BICA 0019); (3) Shoshone River at Kane, WY (BICA 0026); (4) Shoshone River one mile west of Lovell, WY (BICA 0016); and (5) Soap Creek at the County Road 313 Bridge (BICA 0200)^{†††}.

[†]Of the 73,531 observations reported in the study area, one elevation value, entered in STORET by the USGS, was dated 01/01/01. The second oldest observation entered in STORET for the BICA study area was collected in 1947. Consequently, a more representative period of record for observations in the study area would be from 1947 through 1997.

^{††}When data are entered into STORET and locked by the controlling agency (EPA), results of a STORET retrieval are limited to general station information and any "unlocked" portions of the data. Additional data must be obtained by contacting the controlling agency (EPA).

^{†††}Water quality station location descriptions are verbatim from STORET. Any misspellings and abbreviations

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the BICA water quality criteria screen found 20 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, lead, mercury, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Nitrate, nitrite, nitrite plus nitrate, sulfate, arsenic, beryllium, cadmium, chromium, lead, mercury, nickel, and uranium exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 708 times at 31 monitoring stations from 1957 through 1997. Forty-seven concentrations, reported at depths greater than 50 feet, at nine monitoring stations within the park in Bighorn Lake (BICA 0065, BICA 0070, BICA 0072, BICA 0087, BICA 0113, BICA 00136, BICA 0143, BICA 0174, BICA 0176), were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life from 1968 through 1970.

The pH was measured 2,268 times at 159 monitoring stations from 1947 through 1997. Of the 2,267 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), six concentrations at six monitoring stations, in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002), a stream south of Sunlight Canal (BICA 0017), Shoshone River near Lovell, WY (BICA 0019), and within the park, in Yellowtail Reservoir (Bighorn Lake) (BICA 0032, BICA 0055) and Bighorn River near St. Xavier, MT (BICA 0180), were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1972 through 1984. Four observations were greater than or equal to pH 9.0 and two observations were less than or equal to pH 6.5. The highest pH of 9.7 SU was reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in December 1979. The lowest pH of 6.3 SU was reported in a stream south of Sunlight Canal (BICA 0017) in July 1976.

Turbidity was measured 709 times at 20 monitoring stations from 1968 through 1983. One-hundred-eighty-one concentrations at 12 monitoring stations exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1968 through 1983. The highest concentration of 6,400 NTU was reported within the park in the Bighorn River 0.5 mile south of Bighorn Lake (BICA 0010) in September 1980.

Total coliform concentrations were measured 111 times at seven monitoring stations from 1967 through 1995. Twenty-eight concentrations at three stations, within the park in Bighorn Lake near Horseshoe Bend (BICA 0047, BICA 0053) and the Bighorn River at Kane, WY, just upstream of the park (BICA 0002), exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1967 through 1990. Twenty of these 28 concentrations were reported within the park in Bighorn Lake below Horseshoe Bend (0047) from 1967 through 1974, including the highest concentration of 46,000 CFU/100 ml in June 1967. Fecal coliform concentrations were measured 599 times at 12 monitoring stations from 1968 through 1990. Of the 595 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 159 concentrations at ten monitoring stations, in the Shoshone River (BICA 0015, BICA 0019, BICA 0020, BICA 0026), within the park in Bighorn Lake (BICA 0032, BICA 0047, BICA 0051, BICA 0053, BICA 0055), and the Bighorn River at Kane, WY, just upstream of the park (BICA 0002), exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml from 1968 through 1990. The highest concentration of 31,000 CFU/100 ml was reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in June 1974.

in STORET are replicated in this document.

Nitrate concentrations (including dissolved and total as N and as NO₃) were measured 1,674 times at 47 monitoring stations from 1947 through 1980. Of the 1,673 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), two dissolved nitrate as NO₃ concentrations, 150 mg/L in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) and 90 mg/L in the Shoshone River near Lovell, WY (BICA 0019), exceeded the drinking water criterion of 44 mg/L for nitrate as NO₃ in July 1956 and December 1968, respectively.

Nitrite concentrations (including dissolved and total as N and dissolved as NO₂) were measured 528 times at 18 monitoring stations from 1964 through 1982. Thirty-six dissolved nitrite as NO₂ concentrations at two stations, in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) and the Shoshone River at Kane, WY, at the State Route 37 Bridge (BICA 0026), exceeded the drinking water criterion of 3.3 mg/L for nitrite as NO₂ during 1964 and 1965. The highest concentration of 9 mg/L was reported three times in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in June and July 1965 and twice in the Shoshone River at Kane, WY, at the State Route 37 Bridge (BICA 0026) in August 1965.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 701 times at 26 monitoring stations from 1971 through 1989. One dissolved concentration of 11 mg/L in the Shoshone River near Lovell, WY (BICA 0019) exceeded the drinking water criterion of 10 mg/L in December 1979.

Total sulfate concentrations were measured 1,397 times at 33 monitoring stations from 1947 through 1988. Of the 1,396 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 944 concentrations at 21 monitoring stations located throughout the study area equaled or exceeded the secondary drinking water criterion of 250 mg/L from 1947 through 1988. The highest concentration of 1,770 mg/L was reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in July 1961.

Arsenic concentrations (including dissolved and total) were measured 49 times at nine monitoring stations from 1970 through 1991. One dissolved concentration of 60 micrograms per liter (µg/L) in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) exceeded the drinking water criterion of 50 µg/L in April 1971.

Beryllium concentrations (including dissolved and total) were measured 73 times at 42 monitoring stations from 1970 through 1991. One total concentration of 32.99 µg/L at the mouth of Rotten Grass Creek (BICA 0209) exceeded the drinking water criterion of 4 µg/L in April 1977.

Cadmium concentrations (including dissolved and total) were measured 59 times at 16 monitoring stations from 1970 through 1991. Of the 53 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), three concentrations at two monitoring stations, in the Bighorn River at Kane, WY, just upstream of the park (BICA 0003) and the mouth of Rotten Grass Creek (BICA 0209), exceeded the acute freshwater criterion of 3.9 µg/L during 1973 and 1977. Two of these three concentrations, reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0003), also equaled the drinking water criterion of 5 µg/L in April 1973 and July 1973.

Chromium concentrations (including dissolved, total, and hexavalent) were measured 135 times at 91 monitoring stations from 1970 through 1991. One dissolved concentration of 134 µg/L within the park at a spring northwest of Hillsboro (BICA 0082) exceeded the drinking water criterion of 100 µg/L in July 1978.

Copper concentrations (including dissolved and total) were measured 379 times at 109 monitoring stations from 1957 through 1991. Thirty-three concentrations at 32 stream or spring monitoring stations located throughout the study area exceeded the acute freshwater criterion of 18 µg/L from 1969 through 1979. The highest concentration of 67 µg/L was reported in Pitchfork Creek (BICA 0151) in January 1979.

Lead concentrations (including dissolved and total) were measured 104 times at 57 monitoring stations from 1970 through 1991. Of the 102 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 45 dissolved concentrations at 45

stream or spring monitoring stations located throughout the study area exceeded the drinking water criterion of 15 µg/L from 1972 through 1979. Forty-four of these 45 concentrations also exceeded the acute freshwater criterion of 82 µg/L during 1978 and 1979. The highest concentration of 5,250 µg/L was reported within the park at a spring northwest of Hillsboro (BICA 0082) in July 1978.

Mercury concentrations (including dissolved and total) were measured 47 times at 13 monitoring stations from 1970 through 1991. Two dissolved concentrations, 6.2 µg/L and 5 µg/L in the Bighorn River south of Kane, WY (BICA 0001), exceeded the drinking water criterion of 2 µg/L and the acute freshwater criterion of 2.4 µg/L in February 1973 and September 1973, respectively.

Nickel concentrations (including dissolved and total) were measured 117 times at 88 monitoring stations from 1970 through 1989. Twenty concentrations at 20 monitoring stations exceeded the drinking water criterion of 100 µg/L during 1977 and 1978. The highest concentration of 228 µg/L was reported within the park at a spring northwest of Hillsboro (BICA 0082) in July 1978.

Dissolved silver concentrations were measured 62 times at 39 monitoring stations from 1970 through 1991. Nine concentrations at nine monitoring stations, southeast of Fort Smith, MT (BICA 0130, BICA0133, BICA 0137, BICA 0157, BICA 0160), north of Fort Smith, MT (BICA 0198, BICA 0202, BICA 0204), and within the park in a tributary to Lime Kiln Creek (BICA 0161), exceeded the acute freshwater criterion of 4.1 µg/L during 1978 and 1979. The highest concentration of 8 µg/L was reported four times, in West Soap Creek (BICA 0130) in October 1978, a tributary to War Man Creek (BICA 0133) in October 1979, a spring near Soap Creek (BICA 0157) in October 1978, and a spring north of Fort Smith (BICA 0198) in November 1978.

Natural uranium concentrations (including dissolved and suspended) were measured 103 times at 101 monitoring stations from 1973 through 1979. Nine concentrations at nine monitoring stations, north of Fort Smith (BICA 0197, BICA 0198, BICA 0205, BICA 0206), east of Fort Smith (BICA 0146, BICA 0185, BICA 0193), Bighorn River at Kane, WY, just upstream of the park (BICA 0003), and a stream south of Sunlight Canal (BICA 0018), exceeded the drinking water criterion of 20 µg/L from 1973 through 1978. The highest concentration of 73.72 µg/L was reported in Mountain Pocket Creek at the County Road 313 Bridge (BICA 0193) in October 1978.

Zinc concentrations (including dissolved and total) were measured 368 times at 110 monitoring stations from 1957 through 1991. Forty-six concentrations at 34 stream or spring monitoring stations located throughout the study area equaled or exceeded the acute freshwater criterion of 120 µg/L from 1957 through 1988. The highest concentration of 874 µg/L was reported within the park at a spring south of Davis Creek (BICA 0086) in July 1978.

The IDEA conducted for BICA indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the group Chlorophyll, no observations were recorded since 1980. For the groups Alkalinity and Clarity/Turbidity, no observations were recorded since 1983. For the other ten parameter groups, less than 18 percent of the observations were recorded since 1985. Overall, approximately 6 percent of the observations for Level I parameter groups were recorded since 1985. Data for nine groups, Alkalinity, Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Sulfates/Total Dissolved Solids/Hardness, and Bacteria, were recorded at less than half of the 207 monitoring stations with data. Relative to other groups, data were limited for Dissolved Oxygen, Clarity/Turbidity, Chlorophyll, and Bacteria. Results for 23 of the 126 EPA priority toxic pollutants (consisting of general inorganics, metals, and pesticides) were retrieved from STORET.

Surface water resources in the BICA study area include the Bighorn and Shoshone Rivers; Porcupine, Crooked, Dry Head, Black Canyon, and numerous other perennial and intermittent creeks; Bighorn, Lovell, and other smaller reservoirs and developed ponds; Sunlight, Globe, Lovell, and other irrigation ditches and canals; and numerous springs. The data inventories and analyses contained in this report reveal a shortage of relatively recent observations for many key parameters at stations throughout the study area. Of the 210 monitoring stations in the study area, only 13 stations reported 5,187 total observation to STORET since 1985. Five stations (BICA 0002, BICA 0019, BICA 0026, BICA 0073, BICA 0180) accounted for approximately 93 percent of the data since 1985.

Without adequate data it is difficult to make definitive statements regarding recent water quality in the study area; however, from the available data, water quality has generally been good with some impacts from human activities. Potential natural sources of contamination include erosion from runoff. Potential anthropogenic sources of contamination include municipal and industrial wastewater discharges (including produced water discharges from oil and gas facilities); ranching and agricultural activities; recreational use; quarrying and mining activities; timbering operations; oil and gas exploration; and atmospheric deposition.

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INTRODUCTION

The National Park Service's (NPS) Organic Act of 1916 states that the mission of the NPS is to promote and regulate the use of national parks, monuments, and other units "... to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations." One task embodied by this mission is preserving and protecting water resources and water dependent environments in parks. Ensuring the integrity of park water quality, due to its importance in sustaining natural, aquatic park ecosystems and supporting human consumptive and recreational use, is fundamental to successfully addressing this task. The first step in ensuring the integrity of park water quality is defining historic and extant water quality.

This document represents one product of an ongoing effort by the NPS Water Resources Division (WRD) and the Servicewide Inventory and Monitoring Program to characterize baseline water quality using existing data at park units containing significant natural resources. This effort was initiated in 1993 by the award of a contract to Horizon Systems Corporation to retrieve, format, and analyze surface water quality data from the Environmental Protection Agency's (EPA) Storage and Retrieval (STORET) database system. The scope of work identified in the Request For Proposals outlined several sequential, interrelated project phases, including, but not limited to: (1) determining the water quality retrieval/query area around each park; (2) downloading and assessing the quality of the data from STORET; (3) generating basic water quality summary statistics and graphic plots; (4) reformatting water quality data for compatibility with the park-based Water Quality Data Management System presently under-development; and (5) providing recommendations concerning possible hardware, software, and personnel options for storing combined park databases in a centralized NPS water quality database. This report documents the results of phases one through four of this effort for this park unit.

Goal

The goal of this document is to provide descriptive water quality information in a format usable for park planning purposes (eg. Water Resources Management Plans, Resource Management Plans, and General Management Plans). The report is designed to characterize baseline water quality rather than assess specific water quality problems at a park. This is consistent with the Servicewide Inventory and Monitoring Program's goal of obtaining basic, "Level I", water quality parameters for key waterbodies at each park (National Park Service 1993). Consequently, this report is best used as a reference document to help design new goal-driven water quality monitoring programs rather than as conclusive evidence of previous or existing water quality problems.

Purpose

The purpose of this report is to inventory existing park water quality data; establish baseline water quality at the park; identify potential water quality problems; and establish a park water quality database. This report is intended to enable park resource managers to compare and contrast water quality data collected as part of ongoing inventory and monitoring programs with historical water quality trends. Additionally, this report is intended to foster better designed park-based water quality inventory and monitoring programs in the future. The water quality databases which accompany this report will also lay the groundwork for establishing a NPS water quality database that will allow Regions and Washington Offices to generate regional and national assessments of park water quality.

Objectives

Specific objectives of the study documented in this report are to:

1. Retrieve water quality and related data from the EPA's STORET and other database systems;
2. Develop a complete inventory of all retrieved data;

3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;
4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;
5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and
6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

This report is comprised of five chapters. The first chapter, this Introduction, provides a brief statement of the study's background; goal, purpose, and objectives; and the key personnel who helped produce the document. This chapter also contains this brief overview of the document's contents and important interpretive caveats to consider when referring to and using this document. The second chapter focuses on the methods, procedures, and databases that were employed to retrieve and analyze water quality data for the park. The third chapter is the user's interpretive guide to chapter four. Chapter three explains how to interpret all the tables and figures presented in chapter four. Chapter four, which likely comprises the majority of the document (unless there isn't much water quality data for the park), contains detailed inventories, descriptive statistics, graphics, and national EPA water quality criteria comparisons characterizing the park unit's water quality data on a station-by-station basis and over the entire study area. This chapter also contains a comparison of park water quality data with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters and a listing of water quality observations that were outside the STORET edit criteria range. Chapter five, the Appendices, contains more specialized materials such as the file names and database structures included on floppy disk(s) with this report; STORET edit criteria; national EPA water quality criteria; Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters; selected water quality references; and other materials which provide background on the methods, procedures, and databases used or produced by this study.

The water quality and other related data referenced in this report accompany the document on floppy disk. The water quality parameter data file is in DBASE III+¹ format and will be useable in the park-based Water Quality Data Management System presently under-development. The water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and River Reach databases are also in DBASE III+ and/or ASCII format for ready-use in Geographic Information Systems (GIS), Computer-Aided Design Systems, or Desktop Mapping Systems.

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses² and with the Servicewide Inventory and

¹The use and/or mention of specific proprietary hardware or software packages is for informational purposes only and is not intended to connote or denote an endorsement.

²The Environmental Protection Agency's Quality Criteria for Water 1995 Final Draft (Silver Book) was the primary source of water quality criteria. In the spirit of the other caveats offered in this section, it is important to recognize that water quality criteria are often revised when new or better information become available.

Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

Many individuals contributed to the design and implementation of this project. The primary contributors and their roles in the project are briefly mentioned below.

National Park Service, Water Resources Division:

Dean Tucker was the Contracting Officer's Technical Representative responsible for designing, coordinating, and implementing all aspects of this effort.

Mike Matz coordinated and managed the team which prepared all components of the report.

Gary Rosenlieb provided administrative oversight and was involved in quality control for all tasks related to this project.

Barry Long and Roy Irwin reviewed technical tasks and provided water quality expertise related to data analysis.

Gary Smillie provided hydrologic expertise in the determination of hydrologic seasons.

Donnie Dustin, Greg Harp, and Clint Bassett helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Robert Flynn, Dawn Grandbois, Bill Folsom, Dana Griffin, Jonathan Duran, and Aymn Elhaddad provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, Mary Beth Talty, Curtis Cooper, Paul McElvery, J. Chris Echohawk, Kristie Maczko, Adam Henson, Shawndra Mawhorter, Lisa Smith, Eric Janney, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, and Margaret Matter uploaded water quality data to STORET prior to report preparation.

Jacque Nolan designed the cover.

Horizon Systems:

Cindy McKay served as Project Manager for Horizon Systems, performed the initial requirements analysis, and was involved in all quality control tasks related to the project.

Alan Cahoon was responsible for automating the procedures which produced the water quality databases and Water Quality Results chapter.

Sue Hanson, P.E., provided technical advice for writing this document.

Dr. Jim Loftis was the data quality analyst for the project.

Armando F. Ballofet, P.E., served as the local technical liaison between Horizon Systems and the NPS.

Other National Park Service:

Several other individuals provided invaluable technical review, comments, administrative support, and/or other assistance, including: Dan Kimball, Bill Jackson, Mark Flora, Gary Williams, John Karish, Brendhan Zubricki, Richard Hammerschlag, Randy Ferrin, Gary Vequist, Mike Martin, Kevin Berghoff, and Dyra Monroe.

METHODOLOGY

This section provides an overview of the procedures and criteria used to retrieve and analyze water quality data for each park unit. Generating baseline water quality data inventories and analyses for all NPS units is a monumental task. To accomplish this undertaking given a very limited budget, the procedures employed to produce each report had to be as generic and automated as possible. Consequently, customization of reports to individual park needs and issues was not feasible. Moreover, such customization was beyond the scope of this effort which was simply intended to produce baseline water quality data inventories for all parks rather than customized issue-driven reports. During the procedure-development stages of the project, specifications for the final product evolved, within the context of the aforementioned resource constraints, to focus on comprehensive water quality baseline data inventories and concise, descriptive statistical examinations of the available water quality data for each park unit. Detailed below are the data sources and final methods and procedures that were used to create the baseline water quality inventories, analyses, databases, and other products for each park unit. A thorough understanding of the limitations of the data sources and procedures described in this chapter and the next (Interpretive Guide to Water Quality Results) is a prerequisite to intelligent use of the results presented in this document.

Delineation of Park Study Area

The first step in retrieving water resources-related data for each park was deciding on a procedure to determine the study area boundary. Since water flows through parks, utilizing the park boundary as a simple query/study area was deemed inadequate. On the other end of the continuum, using the entire watershed as the study area was considered superfluous given: (1) the areal extent of certain park watersheds (eg. the entire Mississippi River); (2) the sheer volume of potentially irrelevant data such a large study area could generate; and (3) the resources required to specify the watershed for each park unit. The approach which was ultimately adopted - a modified hydrologic boundary - reflects a compromise between the park boundary and the entire watershed. Thus the study area employed for each park is an area extending at least three miles upstream and one mile downstream from the park boundary. Although these distances are somewhat arbitrary, this approach is easy to automate and was felt to limit the data retrieved, in most instances, to that of most importance to the park. Extending the query area one mile downstream of the park was intended to capture any data immediately downstream of the park which may reflect the quality of the water in the park. A current (as possible) copy of each park's boundary was obtained in digital format directly from the park or digitized from Regional land status maps, U.S. Geological Survey (USGS) quadrangles, or other sources. Using GIS techniques, the boundary was used to create the three miles upstream, one mile downstream buffer. For a few parks with which WRD water quality specialists were very familiar with potential water quality threats and/or valuable sources of data that may lie just outside the study area, the study area may have been tweaked (enlarged) to cover these areas of concern or interest. Unfortunately, a customized study area was not feasible for all park units. Hence, the three miles upstream, one mile downstream buffer was the primary study area employed for most parks. This study area was transferred to the EPA mainframe computer and used as the basis for all water resources-related data retrievals from the data sources described below.

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Six of these data systems were used for this project:

- STOrage and RETrieval System (STORET) - water quality parameter data, locations of sampling stations, descriptive elements about stations and parameters;
- Industrial Facilities Discharge (IFD) - locations of industrial and municipal point source discharge facilities;

- Drinking Water Supplies (DRINKS) - locations of intake pipes for drinking water supplies;
- Water Gages (GAGES) - locations of USGS and other water gages;
- Water Impoundments (DAMS) - locations of most large water impoundments (greater than 10,000 acre feet at normal pool volume) and many smaller impoundments; and
- River Reach File, Version 3 (RF3) - 1:100,000 scale geographical representation of surface waters (rivers, lakes, etc.) with a unique identifier assigned to each surface water segment and connectivity information useful for routing and navigation.

STORET is the national water quality data repository (U.S. Environmental Protection Agency 1989). Water quality data is entered in STORET by public agencies (federal, state, or local) that collect water samples and/or perform laboratory analysis. As such, STORET is a "user-beware" data system. Although the EPA manages the STORET data system and, since November 1983, has imposed some minimum quality control criteria on the data (See Appendix C), data are generated and input to STORET by the "owner" agencies. Consequently, the EPA does not certify any data within STORET. Currently, there are over 800,000 active and inactive sampling stations and more than 225 million observations covering in excess of 13,000 water quality parameters entered in STORET. The earliest data dates back to the turn of the century. Using the bi-monthly update cycle, user agencies may store results of recent monitoring activities in STORET. Included in STORET is USGS WATSTORE water quality data, which is updated on a monthly basis. Although STORET contains a phenomenal amount of data, it is important to note that data exist in STORET only if the collectors decide to upload their data to the system. Since many agencies and researchers do not upload their data to STORET, the absence of water quality data in the system for a particular area doesn't mean that there has never been any water quality data collected for the area. The data may exist in published or unpublished reports, file cabinets, or in agency-specific databases. Identifying and retrieving these other sources of data were beyond the scope of the present effort. All parameter data and water quality station location data downloaded from STORET within the park's study area are included in DBASE III+ format files on disk(s) accompanying this report (See Appendices A and B).

The data within the IFD database are extracted from the EPA's Permit Compliance System (PCS). IFD contains the facility locations of all industrial and municipal dischargers which require a National Pollutant Discharge Elimination System (NPDES) permit to operate. Over 7,100 municipal, federal, and industrial facilities discharging into the waters of the United States are tracked by PCS and IFD. If any industrial facilities discharges exist within the study area, a file in DBASE III+ format documenting a variety of information about each discharge accompanies this report on disk (See Appendices A and B).

The EPA DRINKS database identifies locations of drinking water supply intakes. This file contains data for 850 supplies which serve more than 25,000 people, and 6,800 supplies which serve between 1,000 and 25,000 people. If any drinking water intakes exist within the study area, a file in DBASE III+ format documenting a variety of information about each intake accompanies this report on disk (See Appendices A and B).

The GAGES data originates primarily with the USGS and copies are maintained on the EPA mainframe computer for ease of integration with other EPA national data systems. Although other agency's water gages, as well as some artificial gages, may appear in GAGES, the vast majority of gages are stream gages belonging to the USGS. The GAGES database contains approximately 36,000 records for both active and inactive gaging stations. If any USGS or other agency stream gages occur within the study area, a file in DBASE III+ format documenting several fields of information about each gage accompanies this report on disk (See Appendices A and B).

The Water Impoundment database was originally compiled by the U.S. Army Corps of Engineers in response to a Congressional inquiry on dam safety hazards (GKY and Associates 1990). The EPA subsequently modified the database for use in water quality investigations. Of the 68,155 dams in the database, 2,125 are considered large (impounding 10,000 acre feet or more at normal pool volume). It is important to note that while the database includes entries for 66,030 smaller dams, estimates place the actual number of dams in the U.S. at several million

(including small farm ponds). If any water impoundments occur within the study area, a file in DBASE III+ format documenting several fields of information about each impoundment accompanies this report on disk (See Appendices A and B).

The RF3 data system is a hydrologic database of surface water features across the U.S. (excluding, at present, Idaho, Oregon and Washington, which currently operate a different system - although this data is expected to be converted to RF3 soon, Alaska and Hawaii). RF3 was created primarily from 1:100,000 scale USGS Digital Line Graph data. RF3 is made up of over 3,000,000 individual "reaches". A reach is generally defined as a portion of surface water between two confluences (U.S. Environmental Protection Agency 1993). The linework underlying RF3 contains over 95,000,000 coordinate points. RF3 is designed to facilitate hydrologic routing, identifying upstream and downstream elements, and specifying the exact location of any point on a stream network. RF3 data exists as a series of traces with associated attributes. The EPA project which is producing RF3 is being conducted in three phases: Compilation, Assessment, and Revision. The Compilation phase is complete except for Idaho, Washington, Oregon, and Alaska. The Assessment phase was completed during the first half of 1994; while the Revision phase was begun in March 1994. One important outcome of the Revision phase is that the reach codes which uniquely identify each surface water feature will change. Consequently, these codes should not be used, at this time, as keys for relating other data to RF3. The RF3 data provided with this document is provisional and should be used only to provide a geographic backdrop for the park's water quality data. RF3 data covering each USGS catalog unit (a geographic area representing a single or multiple drainage basin(s), or some other distinct hydrologic feature (U.S. Geological Survey 1982)) touched by the park's study area is included in ASCII export and DBASE III+ formats on the disk(s) accompanying this report (See Appendices A and B).

For additional information on any of these data systems, contact the EPA Office of Water at (202) 260-7028.

Data Retrieval and Analysis Procedures

The six EPA data systems discussed above reside on the EPA mainframe computer located in Research Triangle Park, N.C. Horizon Systems used a dedicated, leased telephone line with a data transfer rate of 9600 bits per second to download data occurring within the park's study area from all the databases. The bisynchronous communication software and hardware provided error checking during all data transfer procedures.

As described above, the park study/query area boundary was used to select the water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and river reaches associated with the park unit. For various reasons, screening criteria (described later in this section) were employed to select appropriate water quality stations, parameters, and observations. Horizon Systems wrote several mainframe programs to automate, to the greatest extent feasible, the STORET data retrieval and storage procedures. Once the data were extracted from the EPA data systems, they were downloaded to a microcomputer for statistical analyses and reformatted into DBASE III+ compatible format.

Specifically, once on the PC, the data were processed to:

- (1) Reformat the data into DBASE III+ format and other database structures;
- (2) Eliminate questionable data outside the STORET edit criteria ranges (See Appendix C);
- (3) Display on a map the location of water quality monitoring stations and other water resources themes;
- (4) Determine the frequency of water quality observations by station, parameter, and station/parameter;
- (5) Generate descriptive period-of-record water quality statistics in a tabular format;
- (6) Generate appropriate descriptive annual and seasonal analyses of the water quality data in a tabular format;
- (7) Plot appropriate period of record time series and annual and seasonal box-and-whisker graphs;
- (8) Compare the water quality data against relevant EPA national criteria; and

- (9) Compare the water quality data against the NPS Servicewide Inventory and Monitoring Program's "Level I" water quality parameters.

Special customized microcomputer programs (primarily written in Clipper and Microsoft Professional BASIC) and procedures were created to address each of these tasks. All reformatted database files are included on disk(s) accompanying this document. The contents of these databases are described briefly below. Complete database structures are included in Appendices A and B. The descriptive water quality tabular statistics (see "Statistical Analyses" below) were computed based upon NPS specifications. Command or batch files were generated to drive STATGRAPHICS 7.0 in order to produce all the time series and box-and-whiskers plots.

Park Unit Databases

Up to seven digital databases in DBASE III+ and other formats have been created for the park by querying the water resources-related data sources described above. The disk(s) containing these databases accompany the report. The contents of each of these databases are discussed briefly below. More detailed documentation of these databases is included in Appendices A and B.

- (A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.
- (B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.
- (C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.
- (D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.
- (E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.
- (F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.
- (G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

The absence of any of these seven files from the disk(s) accompanying the report indicates that there was either no data of this type within the park's study area or the data was unavailable. Several other files are included on the disk(s) accompanying this report, including digital copies of all the figures and tables contained in the document and some other items. Refer to Appendices A and B for detailed documentation of these files. Not included on

disk is an Encyclopedia File (for WRD reference) that documents the minimum and maximum values for each water quality parameter and the parks in which those values were recorded. When Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks, this Encyclopedia File will be available upon request from the NPS WRD.

Screening Methodologies and Procedures

Developing automated or semi-automated procedures to produce baseline water quality inventories and analyses for all national park units required constant testing and debugging of procedures. Three parks, Rock Creek Park, Yellowstone National Park, and Indiana Dunes National Lakeshore, were used to pilot test and refine the automated procedures. It became evident, after a preliminary analysis of all the downloaded STORET data, especially for Indiana Dunes National Lakeshore, that the specifications for the graphical analyses could generate hundreds (possibly thousands) of plots, many of which would not necessarily be useful. Also, there were many stations; parameters; and/or observations downloaded that were not part of the study's objectives; not overly useful; or of dubious quality. In order to reduce the number of graphical plots (time series, annual and seasonal box-and-whiskers) to fit within project resources, various screening criteria were investigated. Ultimately, a comprehensive set of screening criteria were developed to reduce the number of graphical plots. After initial counts of the total number of possible time series and annual and seasonal box-and-whiskers plots were generated, these counts were used to decide which screening criteria would be applied to limit the number of these plots produced for the park unit. Additional screening criteria were employed to restrict the tabular descriptive statistics results to only those deemed useful to the park. Table A provides the categories of screening criteria and to which analyses the screens were applied. A "yes" entry in the table means that the screening category eliminated or prevented data from appearing in certain tables and plots contained in the document. Consequently, in understanding how data from STORET was used in this report, it may be helpful to keep in mind the three general types of screening criteria: (1) screens that apply to stations; (2) screens that apply to certain parameters at stations; and/or (3) screens that apply only to particular observations of parameters at stations. A detailed description of each of the screening criteria categories follows this table. *It is important to note that statistics in "Inventory" reports may not be consistent with statistics in "Overview" reports since different categories of screening criteria were applied.* Also, if attempting to replicate the results of the statistical and graphical analyses presented in this document, be sure to follow the same screening methodologies.

STORET Edit Criteria

As mentioned previously, STORET is a "user-beware" data system. As the EPA doesn't certify any data in STORET, public agencies enter and are responsible for the quality of their own data. Only data entered since November 1983 have been subjected to any rudimentary edit/bounds checking. Agencies entering data since this date can elect to override the edit/bounds checking for individual observations. USGS WATSTORE water quality data is entered into STORET without any EPA edit/bounds checking to ensure data integrity between WATSTORE and STORET. Unfortunately, during the course of our pilot tests, erroneous USGS and EPA water quality data values were discovered. In order to eliminate as much "bad" data as possible, all water quality data downloaded from STORET was subjected to automatic edit/bounds checking (STORET Edit Criteria contained in Appendix C) for the 190 most common parameters. Observations falling outside the STORET Edit Criteria were documented (See the Water Quality Observations Outside STORET Edit Criteria for Park section in the Water Quality Results chapter) and then retained or discarded from the database and all tables and plots based on whether the value was judged as being in the realm of possibility. Although the STORET Edit Criteria screen likely removed some "bad" data for these common parameters, the probability of other erroneous data in the database is high. Be sure to consult the Caveat section in the Introduction.

| Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product): | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|------------------|---------------|-----------------|------------------|-------------|
| Screening Category | Data Download | Overview Tables | Inventory Tables | Annual Tables | Seasonal Tables | Standards Tables | Plots (All) |
| STORET Edit Criteria | yes | yes | yes | yes | yes | yes | yes |
| Date | yes | yes | yes | yes | yes | yes | yes |
| Station Type | yes | yes | yes | yes | yes | yes | yes |
| Phase 0 Parameter | yes | yes | yes | yes | yes | yes | yes |
| Phase 1 Parameter | no | no | yes | yes | yes | yes | yes |
| Media Type | no | no | yes | yes | yes | yes | yes |
| Remark Codes | no | no | yes | yes | yes | yes | yes |
| Composite Type | no | no | yes | yes | yes | yes | yes |
| Phase 2 Parameter | no | no | no | no | no | no | yes |
| Observations/Period of Record | no | no | no | yes | yes | no | yes |

Date Screen

Every water quality observation in STORET typically has a sampling date associated with it. Unfortunately, STORET does not prevent users from entering incorrect dates. Consequently, any water quality observation with an incorrect and/or suspect date (eg. a month greater than 12; a day greater than 31; or a sample date later than the STORET retrieval date) were discarded.

Station Type Screen

STORET contains data from a wide variety of stations classified by the type of waterbody in which samples were collected. As this project's purpose was to inventory and analyze surface-water quality, the following surface-water station types were retrieved (clarification provided in parentheses):

Station Types Included In Retrieval

- (a) STREAM
- (b) CANAL
- (c) LAKE
- (d) RESERV (Reservoir)
- (e) SPRING
- (f) FWTLND (Fresh Water Wetland)
- (g) SWTLND (Salt Water Wetland)
- (h) ESTURY (Estuary)
- (i) OCEAN

Ground water and/or other station type data may have been retrieved if the entering agency classified the station type incorrectly. Rectifying this error was beyond the scope and resources of this project.

Phase 0 Parameter Screen

Nearly all water quality parameters associated with each station type listed above were retrieved. The only exception to this was the exclusion of most of the STORET administrative parameters. A complete list of STORET administrative parameters is included in Appendix D. The few administrative parameters that were included in the retrievals are as follows:

| <u>Code</u> | <u>STORET Administrative Parameter Description</u> |
|-------------|----------------------------------------------------|
| 00027 | Code No. for Agency Collecting Sample |
| 00028 | Code No. for Agency Analyzing Sample |
| 00063 | Sampling Points, Number of In a Cross Section |
| 00111 | Ratio of Fecal Coliform to Fecal Streptococci |
| 00115 | Sample Treatment Code (1=Raw, 2=Treated) |
| 34772 | NPDES Number, Cross Reference |
| 45580 | Method of Analysis |
| 74065 | Stream Flow Class |
| 74066 | Annual Runoff |
| 74067 | Soil Classification |
| 74068 | Water Quality Designated Use Classification |

Phase 1 Parameter Screen

Some of the data retrieved from STORET was not suitable for statistical or graphical analysis. Consequently, this screening criterion eliminated all parameters which were not suitable for statistical or graphical analysis within the context of this project. The full list of these parameters is presented in Appendix E. Examples of parameters excluded from statistical and graphical analysis include the administrative parameters mentioned above, land use acreage, encoded values, dates, latitude/longitude, etc. Excluded parameters do, however, appear in the Parameter Period of Record and Station/Parameter Period of Record (two of the "Overview" Tables), as well as in the water quality parameter file included on disk(s) accompanying this report.

Media Type Screen

Water quality samples can be taken in a variety of aqueous media. Water quality data were retrieved from STORET only if the media were WATER or VERT (vertically integrated). WATER and VERT samples comprise the overwhelming majority of samples in STORET. The media screen eliminated the following water quality sampling media:

| <u>Media Screen</u> | <u>Description</u> |
|---------------------|-----------------------|
| BOTTOM | Sampled At the Bottom |
| DREDGE | Sampled By Dredge |
| PORE | Pore Sample |
| CORE | Core Sample |

Remark Code Screen

STORET enables the agency collecting water quality samples to provide a qualifying remark for each parameter observation. These remarks provide additional information about the measured or observed value entered into STORET (See Appendix B - Parameter Data File for a complete listing and description of all remark codes). Based on the STORET remark codes, two potential screens were applied to water quality observations based on whether the measured value was used in subsequent analyses: (1) Elimination or (2) Modification/Inclusion.

Elimination:

Non-composite water quality parameters with the remark codes presented in Table B were eliminated from the period of record, annual, and seasonal descriptive statistics and graphics. Not including observations with these remarks was justified by the fact that most of the remarks: (A) indicate either less confidence in the measured value; (B) are remarks for nominal or categorical data that doesn't lend itself to statistical analysis; or, (C) complicate the statistical analysis beyond the scope of this effort. Observations containing these remark codes comprise a very small fraction of the data. Although statistical analyses weren't undertaken on this data, all water quality observations, regardless of remark code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to eliminate all non-composite observations with the remark codes presented in Table B.

| Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis: | |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark Code | Description of STORET Remark Code |
| F | Female Species. |
| J | Estimated, Not the Result of Analytic Measurement. |
| M | Presence Verified, But Not Quantified, Below Quantification Limit. For Species, Male. For Oxygen Reduction Potential, Indicates Negative Value. |
| N | Presumptive Evidence of Presence. |
| O | Analysis Lost. |
| V | Analyte Was Detected In Sample and Method Blank. |
| W | Less Than Lowest Value Reportable Under Remark "T". |
| Z | Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value. |

Modification/Inclusion:

Water quality parameter observations with the remark codes presented in Table C were halved prior to inclusion in period of record, annual, and seasonal descriptive statistics and graphics. These remark codes deal with observations that were below the detection limit for the parameter. The common water quality data analysis convention for these remark codes is to use half of the detection limit in statistical analyses (Ward, Loftis, and McBride 1990; Gilbert 1987). Although this is a somewhat defensible treatment of observations below the detection limit, the statistics that may be computed using these halved values may not be defensible. Consequently, any computed statistics in inventory, annual, or seasonal tables that are comprised of 50% or more K, T, and U remark codes are footnoted "Computed with 50% or more of the total observations as values that were half the detection limit." This will provide the user with some caution in using and interpreting these results. Water quality data included on disk(s) accompanying this report that may have these remark codes are stored as the original entry (detection limit). If you re-analyze this data in order to replicate the results presented here, be sure to substitute half the detection limit value in the database whenever these remark codes are encountered.

| Table C. The Value of Water Quality Parameters With the Following Remark Codes Were Halved (Half of the Detection Limit Entered In STORET) Prior to Inclusion In Descriptive Statistics and Graphics: | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Remark Code | Description of STORET Remark Code |
| K | Off-scale Low, Actual Value Not Known, But Known to Be Less Than Value Shown. |
| T | Less Than Detection Criteria. |
| U | Analyzed For But Not Detected, Value is Detection Limit For Process Used. If Species, Undetermined. |

Composite Type Screen

Sometimes data entered in STORET represent something other than a single measurement at one location at one point in time. These samples are typically referred to as composite samples due to the fact that they vary temporally and spatially. Consequently, the observation entered into STORET for composite data is typically a computed value that summarizes the data over time and/or space. Such data complicate statistical and graphical analyses and must be handled separately. Such treatment was beyond the scope of this study; although composite values typically represent only a fraction of STORET observations. The composite type screen eliminates all composite observations from statistical and graphical analyses, except those with a composite type code of "A" that have a one day or less sampling period and those with a composite type code "D". All water quality observations, regardless of composite type code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to exclude all composite observations except those with a code of "A" that have a one day or less sampling period and those with a code of "D". Table D presents a list of possible STORET composite type codes.

| Table D. Possible STORET Composite Type Codes | |
|-----------------------------------------------|-------------------------------------------------|
| Composite Type Code | STORET Composite Type Description |
| A | Average |
| H | Maximum |
| L | Minimum |
| N | Number of Observations |
| # | Number of Observations |
| S | Standard Deviation |
| U | Sum of Squares |
| V | Variance |
| C | Coefficient of Error |
| X | Coefficient of Variance |
| E | Skewness |
| F | Kurtosis |
| Z | Number of Obs. That Exceed An Established Limit |
| % | Precision |
| \$ | Accuracy |
| B | N/A |
| D | Indicates Replicate Sample |

Phase 2 Parameter Screen

Due to budgetary limitations, the number of graphical plots (time series, annual and seasonal box-and-whiskers) produced had to be manageable - typically no more than 100 total plots. After scrutinizing the results of the pilot tests and the Baseline Water Quality Data Inventory and Analysis Reports produced for the first group of parks, the 19 parameters which, typically, were the most frequently measured at nearly all stations were water temperature, stage, discharge, and various meteorological measurements (See Table E). Consequently, most of the graphical plots produced would be of water temperature, stage, discharge, and meteorological conditions. Although these are important parameters, particularly in conjunction with other water quality parameters, it was felt that plotting resources would be better allocated to other water quality parameters. Consequently the STORET parameter codes listed in Table E never generated graphical plots. It is important to note, however, that these parameters are included in all other aspects of the project, including all applicable period of record, annual, and seasonal descriptive statistics tables.

| Table E. Frequently Measured STORET Codes That Were Prevented From Generating Plots | |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|
| STORET Parameter Code | STORET Parameter Description |
| 00003 | Sampling Station Location, Vertical (Feet) |
| 00010 | Water Temperature (Degrees Centigrade) |
| 00020 | Temperature, Air (Degrees Centigrade) |
| 00021 | Temperature, Air (Degrees Fahrenheit) |
| 00025 | Barometric Pressure (MM of HG) |
| 00032 | Cloud Cover (Percent) |
| 00035 | Wind Velocity (Miles Per Hour) |
| 00036 | Wind Direction in Degrees from Trun N (Clockwise) |
| 00040 | Wind Direction (Azimuth) |
| 00045 | Precipitation, Total (Inches Per Day) |
| 00046 | Precipitation, Total (Inches Per Week) |
| 00052 | Humidity, Relative (Percent) |
| 00061 | Stream Flow, Instantaneous (CFS) |
| 00065 | Stream Stage (Feet) |
| 81903 | Depth of Bottom of Water @ Sample Site (Feet) |
| 82553 | Rainfall In 1 Day Inclusive Prior to Sample (Inches) |
| 82554 | Rainfall In 7 Days Inclusive Prior to Sample (Inches) |
| 82371 | Rainfall In 3 Days Inclusive Prior to Sample (Inches) |
| 82372 | Rainfall In 14 Days Inclusive Prior to Sample (Inches) |
| 85599 | Precipitation, Total/Period-Rain Equivalent (Cm/Sample) |

Observations/Period of Record Screen

Despite never plotting water temperature, stage, discharge, and meteorological measurements, the number of plots generated by some parks still exceeded the 100 plot limit. Also, some rationale was needed to plot only those parameters with sufficient data density to make a meaningful statistical graphic. For example, time series plots comprised of only a few observations or annual or seasonal box-and-whiskers plots with limited observations and/or data in only one or two years or seasons are not very informative. Consequently, a number of plotting criteria were developed to limit the number of time series and box-and-whiskers plots to, at most, 100 informative graphics by using each parameter's number of observations and period of record. Similar, albeit less stringent criteria, were used for including results of annual and seasonal analyses in descriptive statistics tables. Consequently, there are more summaries of annual and seasonal results in tables than in graphics. Whenever an entry in an annual or seasonal table generated a plot, this entry was footnoted to notify the reader of the presence of the graphic. Due to differing quantities of data at parks, different screening criteria were employed. The same

criteria for appearance in seasonal and annual tables were used for all parks. Table F presents the least stringent plot screens.

Table F. Least Stringent Plot Screening Criteria Used to Limit the Number of Plots Generated

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Time Series:</p> <p>To generate a time series plot, a station/parameter combination must have a period of record of at least 2 years and a total of at least 8 observations.</p> <p>Annual Analysis:</p> <p>To generate an annual box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.</p> <p>Seasonal Analysis:</p> <p>To generate a seasonal box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The exact three plot screens used varied by park unit and are documented in the Overview section of the Water Quality Results chapter. If your park's plotting criteria deviated from these least stringent criteria, it is because too many plots would have been generated using these criteria.

The criteria used for appearance of station/parameter combinations in annual and seasonal analysis tables are presented in Table G. These tabular criteria, which are actually the least stringent plotting criteria, were constant from park to park.

Table G. Criteria Used for Generating Entries in Annual and Seasonal Analysis Tables

| |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Annual Analysis:</p> <p>For an entry to appear in an annual table, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.</p> <p>Seasonal Analysis:</p> <p>For an entry to appear in a seasonal table, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Statistical Definitions

Since this report is intended only to characterize historical and/or existing water quality at the park rather than address specific water quality problems, only simple descriptive statistics are presented. Inferential and non-parametric statistical analysis to examine relationships and trends were beyond the scope of the study. The complete water quality dataset is provided on disk accompanying this report to afford the opportunity for more detailed exploratory data analysis. The descriptive statistics are included in the inventory, annual, and seasonal tables. Table H provides a brief definition of each descriptive statistic provided for each parameter at a station.

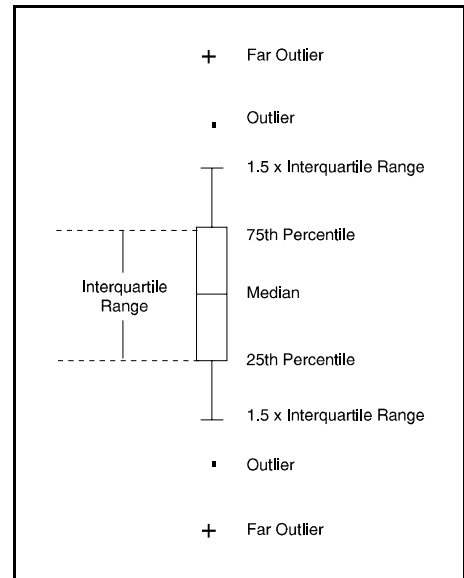
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Observations: | The number of samples collected. |
| Median: | The median is the 50th percentile or the value in a dataset sorted in ascending order that exceeds 50% of all observations, yet is also exceeded by the remaining 50% of all observations. |
| Mean: | The sum of all observations collected divided by the number of observations. |
| Maximum: | The maximum value observed. |
| Minimum: | The minimum value observed. |
| Variance: | This is a measure of variability or dispersion of the observations; or, in other words, describes how many observations are close (or far), from the mean. It is calculated as the weighted average of the squared deviations from the mean. |
| Standard Deviation: | The positive square root of the variance. |
| 10th Percentile: | The value in a dataset sorted in ascending order that exceeds 10% of all observations, yet is itself exceeded by the remaining 90% of all observations. |
| 25th Percentile: | The value in a dataset sorted in ascending order that exceeds 25% of all observations, yet is itself exceeded by the remaining 75% of all observations. The 25th percentile is also known as the first quartile. |
| 75th Percentile: | The value in a dataset sorted in ascending order that exceeds 75% of all observations, yet is itself exceeded by the remaining 25% of all observations. The 75th percentile is also known as the third quartile. |
| 90th Percentile: | The value in a dataset sorted in ascending order that exceeds 90% of all observations, yet is itself exceeded by the remaining 10% of all observations. |

As with the tabular descriptive statistics, the scope of the project limited the generation of exploratory graphics to time series plots and annual and seasonal box-and-whiskers plots. Plots were only generated, however, provided the parameter met or exceeded the relevant plotting criteria specified in the previous section.

Time series plots display the parameter concentration on the Y-axis and the date on the X-axis. This provides the user with a visual feeling for not only the parameter's concentration and variability over time, but also the density of data in different time periods. The time series plots provide a visual representation of the data in the basic station inventory. Due to software limitations, a line connects each measured value in sequence regardless of the time period between samples. Readers are cautioned not to assume that the concentration of the parameter between any two data points can be represented by a straight line. It is likely that the concentration varied between any two observations, particularly if the observations are separated by a significant time period.

The annual and seasonal box-and-whisker plots provide a graphical overview of the measured data and give the user a better understanding of the data's distribution and possible outliers. In essence, the box-and-whisker plots provide a visual representation of the data contained in the annual and/or seasonal tables. The interpretation of the boxes is provided in the figure to the right. Each box encompasses the middle 50 percent of measured values (from the 75th to 25th percentiles). The difference between the 75th and 25th percentiles is also known as the interquartile range. The horizontal line inside each box is the median or 50th percentile. The lines which extend out from each end of the box are the whiskers. The whiskers extend out from first quartile (25th percentile) and third quartile (75th percentile) to the smallest data point within 1.5 interquartile ranges from the first and third quartiles. Observations that extend beyond the whiskers are known as outliers. Far outliers are observations whose values lie more than three interquartile ranges below the first quartile or above the third quartile. These are designated with plus signs.



INTERPRETIVE GUIDE TO WATER QUALITY RESULTS

This interpretive guide discusses each of the products presented in the next chapter - Water Quality Results. This chapter highlights how each of the tables and figures were prepared and how they can be used. Each subheading in this chapter corresponds to a particular product in the subsequent Water Quality Results chapter.

Overview

The Overview provides a brief one-page summary of the results of the various database retrievals for both the study area and the park. The study area results include the park results since the study area encompasses the park and all lands and waters within at least 3 miles upstream and 1 mile downstream of the park. Thus, the GIS estimated acreage of the study area should always be greater than the park acreage. The park acreage was computed from the digital boundary that was obtained for the park. More than likely this acreage will differ, perhaps significantly, from the "official" published acreage for the park due to the spatial and temporal accuracy of the digital boundary, treatment of inholdings, and other concerns. The number of STORET stations is the number of locations within the study area and park where an agency monitored (or intended to monitor) water quality. The number of stations with no data reveals the number of stations created in STORET for which water quality data were never entered. The number of stations with no statistical analysis reports the number of stations in the study area and park that contain data not amenable to normal parametric statistics. The number of longer term stations indicates the number of stations in the study area and park with at least 6 parameters having periods-of-record extending 2 years with an average of at least 1 observation per year over the period-of-record. The date of STORET retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. Thus, the report documents all data entered in STORET prior to the retrieval date. Keep in mind that an agency can upload archival data at any time. Consequently, a retrieval date only guarantees that as of that date, this report contains all the data that had been entered into STORET. The period of record is the earliest date for which water quality data exist in STORET for the study area and park up to the date when the most recent data were entered prior to the retrieval date. The number of parameters measured is the number of unique water quality parameters measured within the study area and park and entered in STORET. The number of water quality observations is the sum of the total number of observations across all parameters within the study area and park. The number of industrial/municipal facilities discharges, drinking water intakes, water gages, and water impoundments are the number of each of these entities found within the study area and park. The number of time series, annual, and seasonal plots are the number of these different types of graphics produced by station/parameter combinations within the study area and park using the plotting criteria described in the previous chapter. The hydrologic seasons, described below, are the seasons used for the seasonal water quality data analysis. The time series, annual, and seasonal criteria are the plot and tabular screening criteria described in the previous chapter.

Regional Location Map

The Regional Location Map provides a small scale, general representation of the park and study area location within the United States. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report.

Water Quality Monitoring Locations Map(s)

The Water Quality Monitoring Locations Map(s) usually provides a larger scale representation of the park and study area than the Regional Location Map. This map indicates the locations within the study area where water quality has been monitored and the data entered into STORET. The water quality monitoring stations are labelled sequentially with the rightmost significant digits. The station names were assigned in numerically ascending order by latitude (for parks with a greater north-south extent than east-west) or longitude (for parks with a greater east-

west extent than north-south). Thus, this map serves as a visual index to the water quality data contained in the report. Since the 1:100,000 scale hydrography (from the River Reach File Ver. 3.0 or other sources) is displayed on the map, users can refer to the map to locate the station number on the reach in which they are interested and then find the appropriate section in the report that documents the water quality at that station. If the scale allows, USGS catalog units are also displayed on the map to provide an approximation of drainage basins. More than one Water Quality Monitoring Location map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report. The digital, geo-referenced data files documented in Appendices A and B will allow the park to create water quality monitoring stations as a coverage in their GIS.

Dischargers, Drinking Intakes, Gages, and Impoundments Map(s)

The Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) displays the same information as the Water Quality Monitoring Location Map(s) except the water quality stations are replaced by industrial/municipal facilities discharges, drinking water intakes, active and inactive gage locations, and water impoundments. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, gage, or impoundment. This number can then be used to obtain additional information about the entity on the following page of the report or to refer to the more detailed database files accompanying the report on disk. These more detailed database files are geo-referenced (See Appendices A and B), thus allowing the park to create these coverages in their GIS. More than one Dischargers, Drinking Intakes, Gages, and Impoundments map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are also included on the disk(s) accompanying this report.

Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table

This table provides some additional information about each of the discharges, drinking intakes, water gages, and water impoundments displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address or some other indication of location; and some other pertinent information. More detailed information about each of these entities is contained in the database files on disk accompanying the report (See Appendices A and B).

Representative Mean Annual Hydrograph for Seasonal Analysis

One component of the water quality data analysis contained in the document is a seasonal analysis of the data (where adequate data exist). In order to undertake this analysis, some representation of the park's seasons was required. Seasons can be based on many factors (eg. hydrologic, climatic, recreational use, etc.). Since project resources did not allow us to contact every park and discuss with resource management staff what appropriate seasons may be for the park, WRD staff elected to adopt primarily a hydrologic/climatic definition of the seasons which uses a process of hydrograph separation to glean seasons from stream discharge patterns. The procedure employed to make these determinations was as follows:

- (1) Find the nearest USGS Hydro-Climatic Data Network (HCDN) station (U.S. Geological Survey 1992) to the park that is most representative of streamflow conditions at the park. The HCDN is basically a subset of USGS streamflow stations, including only those stations that are unaffected by artificial diversions, storage, or other disruptions of the natural channel. All HCDN stations generally have at least a 20 year period of record. Consequently, discharge patterns at these stations should reflect only hydrologic and climatic influences. For the most part, selected HCDN sites were typically within 15-20 miles of the park. In some parks where WRD staff were aware of the existence of a stream gage located within the park that would be more representative of park waters even though it wasn't an HCDN site, this gage was selected.

- (2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.
- (3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

This approach, used for the majority of parks, assumes that most water quality data at the park will be found in streams and that the discharge pattern of the selected stream is representative of the seasons for all park waterbodies. Although this assumption may be weak for certain parks, project resources did not allow a more thorough investigation. For parks where there wasn't any stream gage (HCDN or otherwise) deemed representative of park waters, precipitation records from a nearby meteorological station were obtained from the National Climatic Data Center. Plotting daily average precipitation and box-and-whiskers of monthly precipitation sums allowed WRD hydrologists to make a rough approximation of climatic seasons for use in analyzing the water quality data.

Again, it is important to note the many ways of defining "seasons" and thus the limitations of the seasonal analysis contained in this document. For certain parks it may be more useful to perform a seasonal analysis with seasons defined by recreational use patterns or some other natural or anthropogenic factor. This option is available to the park since all the water quality data analyzed in this document is contained on disk(s) accompanying this report. Digital, reproducible copies of this seasonal analysis graphic are also included on the disk(s) accompanying this report.

Contacts for Agency Codes Retrieved

This table provides a list of the organizations who have entered data into STORET. A contact name at the organization and a phone number are also supplied. The agency code in the first column is the key for identifying which stations belong to that agency. This code will appear in the first line of each station's inventory. Although the agencies listed in this table are potential partners for future water quality monitoring or management endeavors, don't be surprised if the name of the contact and/or the telephone number is out of date. This information is entered when an agency first creates a station. The agency may not update this information when the initial contact moves on or the telephone number changes. Nonetheless, it is likely that the contact or someone else at the agency may be able to provide you with project reports or other information relative to the agency's data. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Quantity of Data Retrieved by Agency Code

This table displays the period-of-record; numbers of water quality stations, longer-term stations, and stations without data; total number of water quality observations; and the number of unique water quality parameters measured by each agency within the study area and park boundary. Using this table, a park can quickly determine which agencies collect the most data in and around the park and whether they have monitored recently. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station Period of Record Tabulation

The Station Period of Record Tabulation provides a quick overview of the names of all the stations within the study area where water quality has been monitored and data entered into STORET. It also furnishes the total number of observations taken at each station and the frequency of observations between certain dates: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75. The station identification number, the four character park abbreviation code followed by a four digit number, provides the means to jump from a particular station in the table to the statistical and graphical analyses for this station contained in the Station-By-Station Results section. The Station Period of Record Tabulation reveals which water

quality stations were situated within the park as defined by the park's GIS boundary. The Station Period of Record Tabulation also footnotes longer-term water quality stations. Longer-term stations are those that have at least 6 parameters with an average of one or more observations per year for those parameters during a period of record extending at least two years. Note that although a station may not be flagged as longer-term, it can still harbor much important data (albeit for only a few parameters or over a very long term with just a few observations). A digital copy of this table accompanies this report on disk (See Appendices A and B).

Parameter Period of Record Tabulation

The Parameter Period of Record Tabulation provides a complete listing of every water quality parameter ever measured in the study area and entered into STORET. This table is a summation of all the water quality observations for each parameter across all stations in the study area. Like the Station Period of Record Tabulation, the total number of observations for each parameter and the frequency of observations between: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75 are provided. This table is handy for quickly assessing whether particular parameters have been measured in the study area. The Parameter Period of Record Tabulation also shows how many in-park (and total) water quality stations contained data for each parameter. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station/Parameter Period of Record Tabulation

The Station/Parameter Period of Record Tabulation combines the information found in the Station Period of Record Tabulation and the Parameter Period of Record Tabulation. This table provides a listing of all the stations where a particular water quality parameter was measured in the study area and the data entered into STORET. The table provides the start and end dates of the period of record of each parameter at each station; the number of years of measurement (computed from the start and end dates); whether the station/parameter combination occurred within the park boundary; the total number of observations for each parameter at each station, and whether a time series (T), annual (A), and/or seasonal (S) plot was generated for the station/parameter combination in the Station-By-Station Results section. This table is very useful when you need to determine at which locations within the study area (or park) particular parameters were monitored and how much data was collected there. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Station/Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station-By-Station Results

Probably the most voluminous portion of the document is the Station-By-Station Results. Here the results of the water quality analyses for each station are presented in sequence. The results include the station inventory; parameter inventory; EPA water quality criteria analysis; and, as applicable, time series graphics and annual and seasonal tables and box-and-whiskers graphics. Each of these products are discussed below.

Station Inventory for Station

Each station's data commences with its Station Inventory. The Station Inventory provides the descriptive attributes about each water quality monitoring station contained in STORET. This includes a variety of locational information such as a verbal description, the Federal Information Processing codes for county and state, latitude and longitude, and other items; the station type (stream, spring, estuary, etc.); monitoring agency; creation date; indices to the River Reach File; whether the station lies within the park boundary; and several other attributes. This water quality station location data is also contained on disk(s) accompanying the report (See Appendices A and B).

Parameter Inventory for Station

Following the descriptive attributes about a station is the Parameter Inventory for the station. The Parameter Inventory provides a complete inventory and descriptive summary of all the water quality parameter data for the station. This table furnishes the parameter STORET code and name; the period of record for this parameter at this station; and the descriptive statistics defined in the Statistical Definitions in the previous chapter. Three different footnotes can appear on a parameter's descriptive statistics. Two asterisks (**) in the 10th, 25th, 75th, or 90th percentile columns indicates that there was insufficient data to compute these statistics for this parameter. Percentiles were not computed unless the parameter had at least 9 observations. Two number signs (##) next to the number of observations indicates that more than 50 percent of the observations entered into the computations as values that were taken to be half the detection limit. Caution should be employed in interpreting and using statistical results when more than half the values are set to half the detection limit. The letter "p" following a numeric STORET parameter code in the Parameter Inventory indicates that a time series plot was produced for this parameter at this station. Digital, reproducible copies of the Parameter Inventory tables are contained on the disk(s) accompanying this report.

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from $\mu\text{eq/l H}^+$; and (3) $\mu\text{eq/l H}^+$. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to $\mu\text{eq/l H}^+$ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu\text{eq/l H}^+$, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

Whenever a bacteriological parameter appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original bacteriological entry; (2) an entry computed using the log of each measured value; and (3) an entry that simply reports the geometric mean. The reason for converting to logs and displaying the geometric mean is convention. Bacteriological water quality standards typically reference the geometric mean rather than the arithmetic. The three bacteriological entries in the descriptive statistics tables will all have the same STORET code.

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. In most cases, the EPA water quality criteria values are single sample concentrations that can be directly compared to single sample STORET entries. There are, however, two notable exceptions to this single sample/single value comparison: ammonia and fecal-indicator bacteria. For these two parameters, criteria are either derived from or depend on the results of other chemical characteristics of the water or require a time series statistical treatment of multiple samples to determine whether the criterion has been exceeded. The EPA ammonia criterion is pH and temperature dependent. To calculate the criterion for each ammonia sample value was beyond

the scope of this project. Consequently, ammonia criteria were not included in Appendix F or the EPA Water Quality Criteria Analyses. Un-ionized ammonia criteria can be determined from formula table values included in the EPA Silver Book (Environmental Protection Agency 1995).

For the purposes of this project, fecal-indicator bacteria data were flagged as exceeding criteria when their concentrations exceeded 200, 1000, 126, and 33 (fresh)/35 (salt) colony forming units or most probable number for single samples of fecal coliform, total coliform, E. coli, and enterococci, respectively. These values represent only approximations of the criteria for primary contact recreation waters where criteria are typically expressed in terms of a geometric mean computed with no less than 5 samples during a given month. When a fecal-indicator bacterial observation exceeds a criterion in the EPA Water Quality Criteria Analysis section, the reader should refer to the corresponding geometric mean calculations in the preceding Parameter Inventory. Long-term geometric means that exceed the respective water quality criteria for multiple samples are more indicative of chronic bacteriological problems than single sample values.

Water quality observations carrying non-detection or below-detection limit remark codes (K, T, and U) required special treatment in the EPA Water Quality Criteria Analysis. As with the statistics in the Parameter Inventory, half the detection limit was the value used in the EPA Water Quality Criteria Analysis. For certain observations, however, half the detection limit may exceed a water quality criterion. For those observations it would be inappropriate to classify them as exceeding a criterion since the actual value wasn't known. Thus, it was decided that any below detection limit or non-detect observations that exceed a water quality criterion using half the detection value would be excluded from the EPA Water Quality Criteria Analysis. If non-detect or below detection limit values are excluded from the EPA Water Quality Criteria Analysis for a particular parameter, the total observations for that parameter will be footnoted with an ampersand (&). This will also explain the difference between the total observations in the Parameter Inventory and the EPA Water Quality Criteria Analysis. Non-detect or below detection limit values are included in the EPA Water Quality Criteria Analysis, however, if half the detection limit doesn't exceed the parameter's criterion.

The EPA Water Quality Criteria Analysis for each station lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis table is a good starting point for assessing potential water quality problems at the station, the reader is strongly encouraged to read the caveat section in the Introduction concerning drawing conclusions about water quality problems from this table. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Time Series Plots for Station

Following the EPA Water Quality Criteria analysis will be any Time Series Plots for each parameter that met the time series plot screening criterion selected for the park unit. If a time series plot is generated for a particular parameter at a station, a "p" will appear next to the STORET parameter code in the Parameter Inventory. If no time series plots are present for the particular station, the data did not meet the time series screening criterion listed in the Overview section of the Water Quality Results chapter. The x-axis on these plots is the period of record, listing only the 2-digit calendar year for clarity (i.e. 1983 is presented as 83). The y-axis is the concentration of the selected parameter in its measurement units. In general, the units for a given parameter are given either on the y-axis or in the parameter description in the subtitle of the graph. Subtitle and/or y-axis parameter descriptions may be truncated on the plots so as to not exceed the maximum number of plotting characters. Y-axis values less than zero are sometimes shown for better representation of the entire plot. The station identification code, parameter description, and parameter STORET code are presented in the main title. The footnote provides a descriptive location name. Observations on the plot are represented as squares. Lines are drawn connecting each successive observation. As mentioned previously in the Statistical Definitions section of the Methodology chapter, the interconnecting line is drawn only for ease of reading and provides no indication of what the actual parameter

values were between the two observed measurements. Digital, reproducible copies of all time series plots accompany the report on disk (See Appendices A and B).

For time series plots of pH, the original pH values are plotted. For time series plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a time series plot for bacteriological parameters is log-linear.

Annual Analysis for Station

If more than 9 observations exist in each of at least 4 years for a particular parameter at a station, an Annual Analysis table will be generated. Entries will be made in the table for each parameter having more than 9 observations in each of at least 4 years. The Annual Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by year, rather than the entire period of record. Although some of the years may not contain 9 observations, these years still have an entry in the table. A parameter needs only to have 9 observations in any 4 years of its period of record to qualify for the Annual Analysis table. Like the Parameter Inventory, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Annual Analysis table that also meet the annual analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Annual Box-and-Whiskers Plots for Station

Entries in the Annual Analysis table that meet the annual box-and-whisker plot screening criterion will generate Annual Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each year of the period of record, even if less than 9 observations were recorded in the year. The axis labeling and plot titling is the same as for the time series plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For annual box-and-whiskers plots of pH, $\mu\text{eq/l H}^+$ are plotted. For annual box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of an annual box-and-whiskers plot for bacteriological parameters is log-linear.

Seasonal Analysis for Station

As explained above, a park's hydrologic seasons for seasonal water quality analysis were determined using a process of hydrograph separation and other techniques. If a parameter has more than 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years, a Seasonal Analysis table will be generated for the station. The Seasonal Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by season, rather than the entire period of record. Although certain parameters for a season at a station may not contain 9 observations, these parameters can still have an entry in the table. A parameter needs only to have 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years to qualify for the Seasonal Analysis table. Consequently, some of the parameters could have fewer than 9 observations in a particular season but still generate a table entry. Like the Parameter Inventory and Annual Analysis, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Seasonal Analysis table that also meet the seasonal analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Seasonal Box-and-Whiskers Plots for Station

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are labeled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labeled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labeling and plot titling are the same as for the time series and annual box-and-whiskers plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For seasonal box-and-whiskers plots of pH, $\mu\text{eq/l H}^+$ are plotted. For seasonal box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a seasonal box-and-whiskers plot for bacteriological parameters is log-linear.

EPA Water Quality Criteria Analysis for Entire Park Study Area

This table essentially summarizes all the individual station-by-station EPA water quality criteria analyses in the study area. (Refer to the EPA Water Quality Criteria Analysis for Station section above for more detailed information on the treatment of special cases in the EPA Water Quality Criteria Analysis for Entire Park Study Area.) This table presents a comparison between the study area's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. The EPA Water Quality Criteria Analysis for the Entire Park Study Area lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis for the Entire Park Study Area is a good starting point for assessing potential water quality problems at the park, the reader is strongly encouraged to read the caveat section in the Introduction before drawing conclusions about water quality problems from this table. A digital, reproducible copy of this table accompanies the report on disk (See Appendices A and B).

NPS Servicewide Inventory and Monitoring Program

Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

One of the objectives of this Baseline Water Quality Data Inventory and Analysis project is to perform an IDEA - an Inventory Data Evaluation and Analysis - to determine the presence and/or absence of Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in the park's study area. The Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service (National Park Service 1993) identified the basic water quality parameters displayed in Table I as the parameters that all parks must have for "key" waterbodies (determined on the basis of size, uniqueness, threats, etc.) within park boundaries. Since these parameters can be measured in different ways and with different units, there are multiple STORET codes associated with each parameter; hence the concept of parameter groups. The Strategic Plan distinguishes between those parameter groups required for all parks and parameter groups required only on a case-by-case basis.

The IDEA basically compares the parameters listed in the Parameter Period of Record Tabulation and Station/Parameter Period of Record Tabulation with the "Level I" Servicewide Inventory and Monitoring water quality parameter groups, listed in Table I and in Appendix G, and notes, not only the presence or absence of each parameter group, but the total number of observations for each parameter present in the group; the number of

observations between certain time periods; and the total number of stations within the study area at which the parameter was measured. The total number of different (unique) stations measuring parameters for the group is in parentheses on each parameter group's summary line.

The first page of the IDEA lists the missing Servicewide Inventory and Monitoring Program "Level I" groups. If a parameter group appears on this list, no data for any of the parameters defining the group (See Appendix G) was retrieved for it within the study area. So-called non-priority parameter groups may appear in the missing list. Non-priority parameters are park-specific parameters (case-by-case) which may not be applicable to your park. Consequently, if you believe a particular parameter, not included in IDEA (See Appendix G), to be important for your park, you will have to consult the Parameter and Station/Parameter Period of Record Tabulations to determine the presence or absence of this parameter for the park. Although considered a "Level I" parameter, biological data, obtained through rapid bioassessment or other means, is not considered in this report which deals specifically with surface water chemistry. Following the Missing Level I Group list is the Present Level I Group list which displays the summary results for each Servicewide Inventory and Monitoring "Level I" water quality parameter group that was found.

Table I. Basic "Level I" Water Quality Parameters Identified as Required and Optional By the Servicewide Inventory and Monitoring Program for "Key" Park Waterbodies

| |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><u>Required Parameter Groups:</u></p> <p>(1) Alkalinity</p> <p>(2) pH</p> <p>(3) Conductivity</p> <p>(4) Dissolved Oxygen</p> <p>(5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates)</p> <p>(6) Temperature</p> <p>(7) Flow</p> <p><u>Case-By-Case Parameters Groups:</u></p> <p>(8) Toxic Elements</p> <p>(9) Clarity/Turbidity</p> <p>(10) Nitrate/Nitrogen</p> <p>(11) Phosphate/Phosphorus</p> <p>(12) Chlorophyll</p> <p>(13) Sulfates</p> <p>(14) Bacteria</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The last page of the IDEA summarizes the information from the Missing and Present Level I Group lists. This page provides information on the temporal and spatial distributions of the data. Included in this table are the total number of observations for each parameter group; the number of observations since January 1, 1985; the percent of the total observations since January 1, 1985; the number of stations measuring each parameter group; the percent of the total number of stations with data measuring the parameter group; the number of observations per station with data; the period-of-record for this parameter group; and the average number of observations per year of the period-of-record.

In interpreting the results of the IDEA, the reader should first consult the Missing Level I Group list. For the parameter groups listed, there was no baseline water quality data within the study area entered in STORET. Consequently, these parameter groups could be a higher priority for data collection. It is important, however, to realize that data within these parameter groups may have been already collected but not entered into STORET. The resources for this project did not enable us to pursue thorough literature and file cabinet reviews to dredge up

every last iota of data. If data exists for certain Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in a park's file cabinet, it is the park's responsibility to factor that data into their IDEA. Consequently, the listing of a parameter group on the Missing "Level I" Group list is not a WRD endorsement to launch a study to collect these data. The IDEA is intended to simply note that no data exist for these parameter groups in STORET for the park. It is the park's responsibility to ascertain whether such data has already been collected by the park or other entities before embarking on a new study. In fact, in the future the WRD will require that any park study plan proposing to collect baseline water quality data show that they have consulted their Baseline Water Quality Data Inventory and Analysis report and searched in other locations (file cabinets, published literature, etc.) for the data they propose to collect. A similar interpretation springs from the Present "Level I" Group list. Insufficient data density in certain time periods for particular parameter groups is not necessarily cause for launching a new inventory and/or monitoring program. The park should still consult with other potential sources of data. Again, the IDEA is designed to provide only a quick check on data in STORET for the Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups.

Water Quality Observations Outside STORET Edit Criteria for Park

STORET data entered after November 1983 were subjected to rudimentary edit/bounds checking for 190 common parameters (See the STORET Edit Criteria in Appendix C). None of the data entered into STORET prior to that time has been subjected to edit/bounds checking. Moreover, to maintain exact comparability with USGS WATSTORE data, WATSTORE data entered into STORET has never been subjected to the EPA edit/bounds checking. During the pilot test phase of this project, obviously incorrect data was identified from both USGS and other agency data in STORET. As a consequence, all data downloaded from STORET was filtered through the STORET edit criteria to identify parameter observation values that fall outside any edit criterion ranges. This section documents the station name, parameter, date, time, parameter value, agency, and STORET station name of every observation that fell outside the range of an edit criterion. Not all data falling outside an edit criterion are necessarily incorrect. Such data may represent unique or special conditions. Consequently, every observation falling outside a STORET edit criterion was scrutinized to determine, in our best professional judgement, whether the value was in the realm of possibility or obviously incorrect. Water quality observations that appeared to be obviously incorrect are marked with an "X" in the Disposition column of this table. These values were not retrieved or included in any of the inventory tables or graphs. Water quality values outside a STORET edit criterion but within the realm of possibility were retained and included in inventory tables and graphs. The Water Quality Observations Outside STORET Edit Criteria for Park table documents all values that were outside an edit criterion range. This documentation is also necessitated by the fact that agencies can override the STORET edit criteria for individual observations. Although the edit criteria eliminate some potentially "bad" data from the report, the probability of other incorrect data, for both the 190 parameters that are edit/bound checked and all the other STORET parameters that aren't error checked, is high. Readers should consult the Caveat section in the Introduction for guidelines on the use and interpretation of STORET data. The responsibility for correcting these observations rests with the collecting agency.

WATER QUALITY RESULTS

OVERVIEW FOR BICA

Study Area Boundary Description

The study area includes the park and all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

| | <u>Study Area</u> | <u>Park</u> |
|------------------------------------|-------------------|-------------------|
| GIS Estimated Acreage: | 661098 | 119594 |
| # STORET Stations: | 210 | 87 |
| # Stations With No Data: | 3 | 1 |
| # Stations With No Stat. Analysis: | 0 | 0 |
| # Longer Term Stations: | 16 | 8 |
| Date of STORET Retrieval: | 06/02/98 | 06/02/98 |
| Period of Record: | 01/01/01-04/14/97 | 07/15/56-02/11/97 |
| # Parameters Measured: | 397 | 159 |
| # Water Quality Observations: | 73531 | 35892 |
| # Industrial/Municipal Facilities: | 5 | 1 |
| # Drinking Water Intakes: | 1 | 0 |
| # Water Gages: | 16 | 6 |
| # Water Impoundments: | 7 | 3 |
| # Total Plots: | 123 | 3 |
| # Time Series: | 43 | 1 |
| # Annual: | 39 | 1 |
| # Seasonal: | 41 | 1 |

Hydrologic Definition of Seasons:

1. August 10 - April 14
2. April 15 - June 19
3. June 20 - August 9

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 20 years and at least 120 observations.

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 15 years.

To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

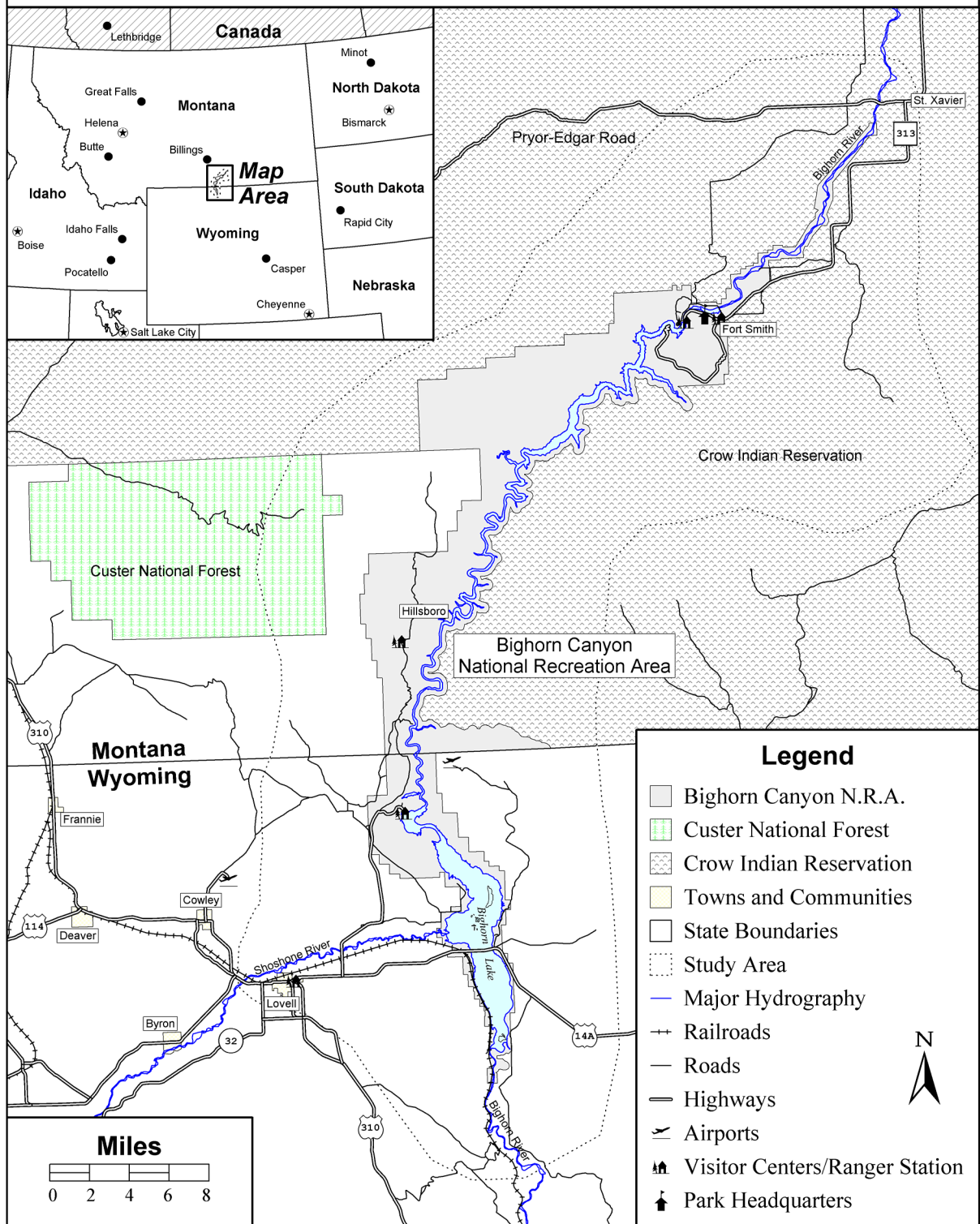
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 25 years and observations in at least 4 of the 25 years.

To be included in the seasonal analysis tables, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.

Bighorn Canyon National Recreation Area

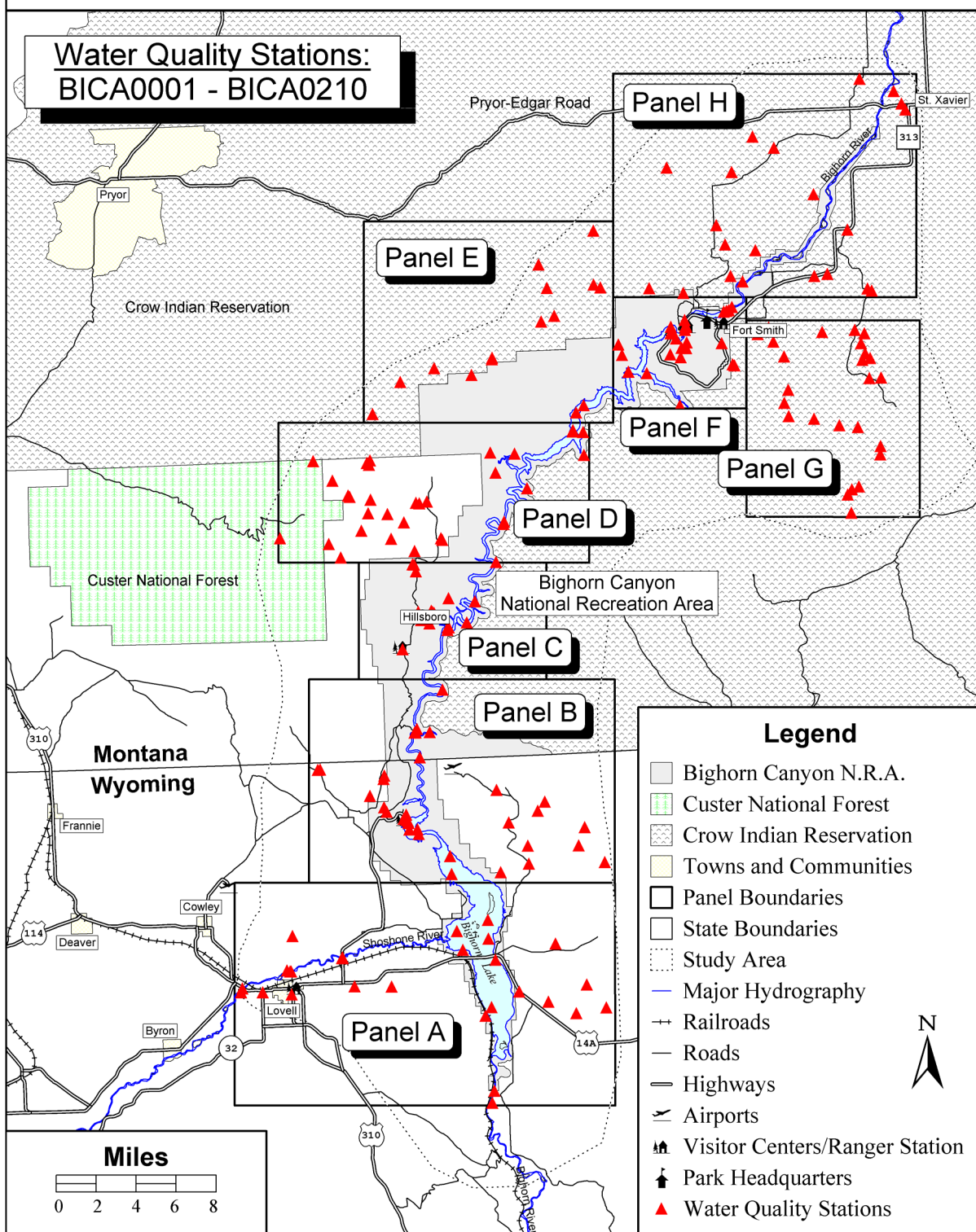
Regional Location Map



Bighorn Canyon National Recreation Area

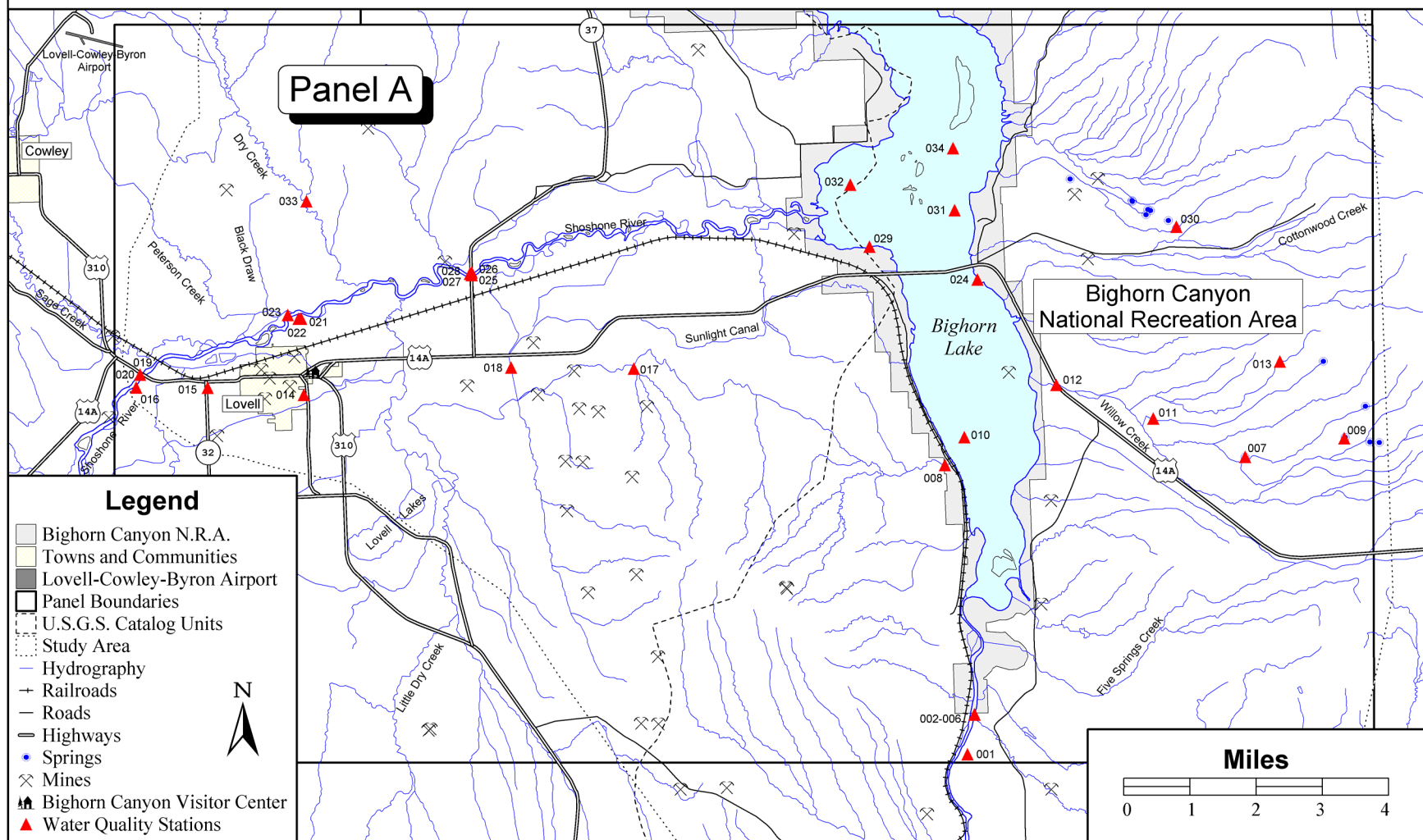
Water Quality Monitoring Locations

Graphic Panel Index



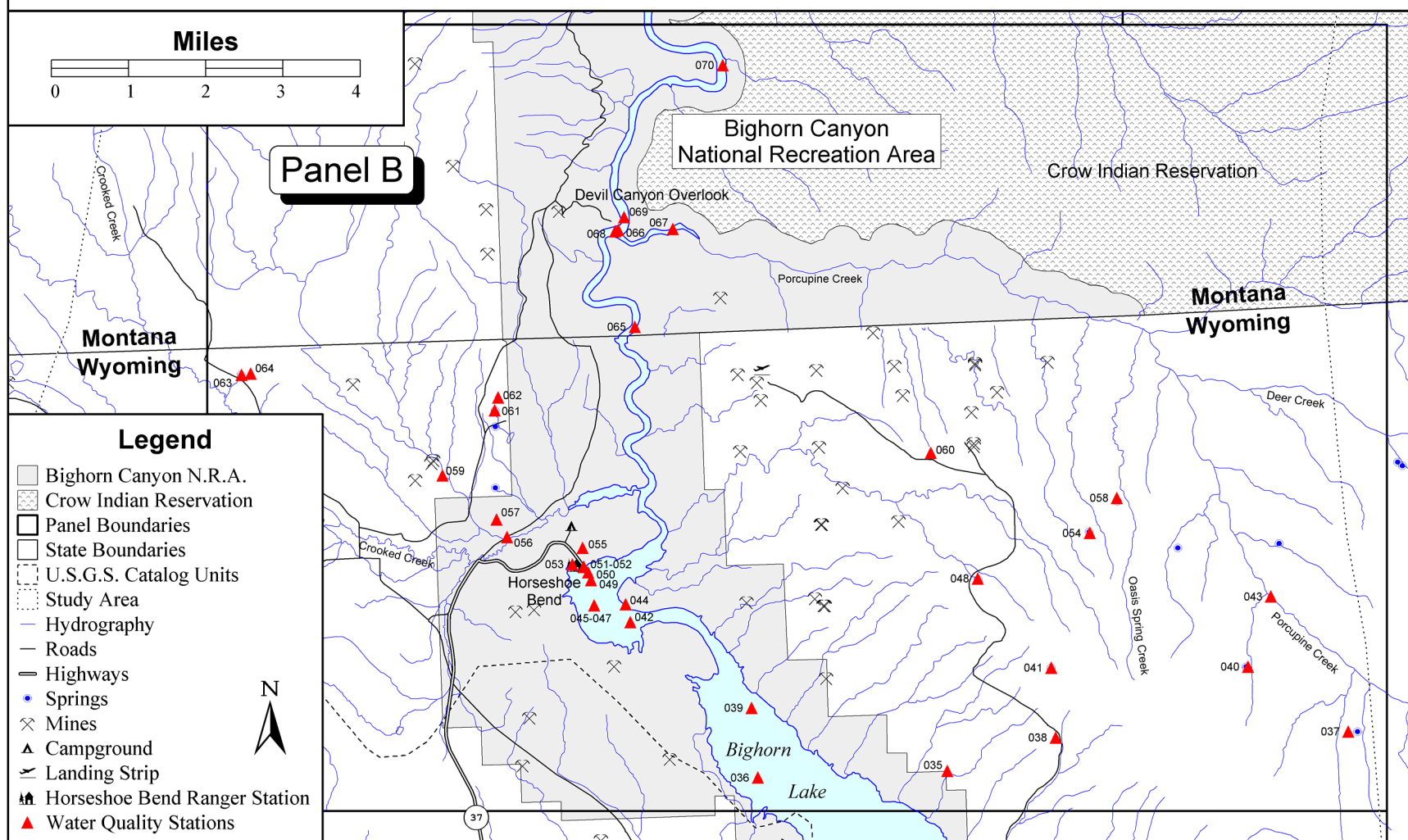
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



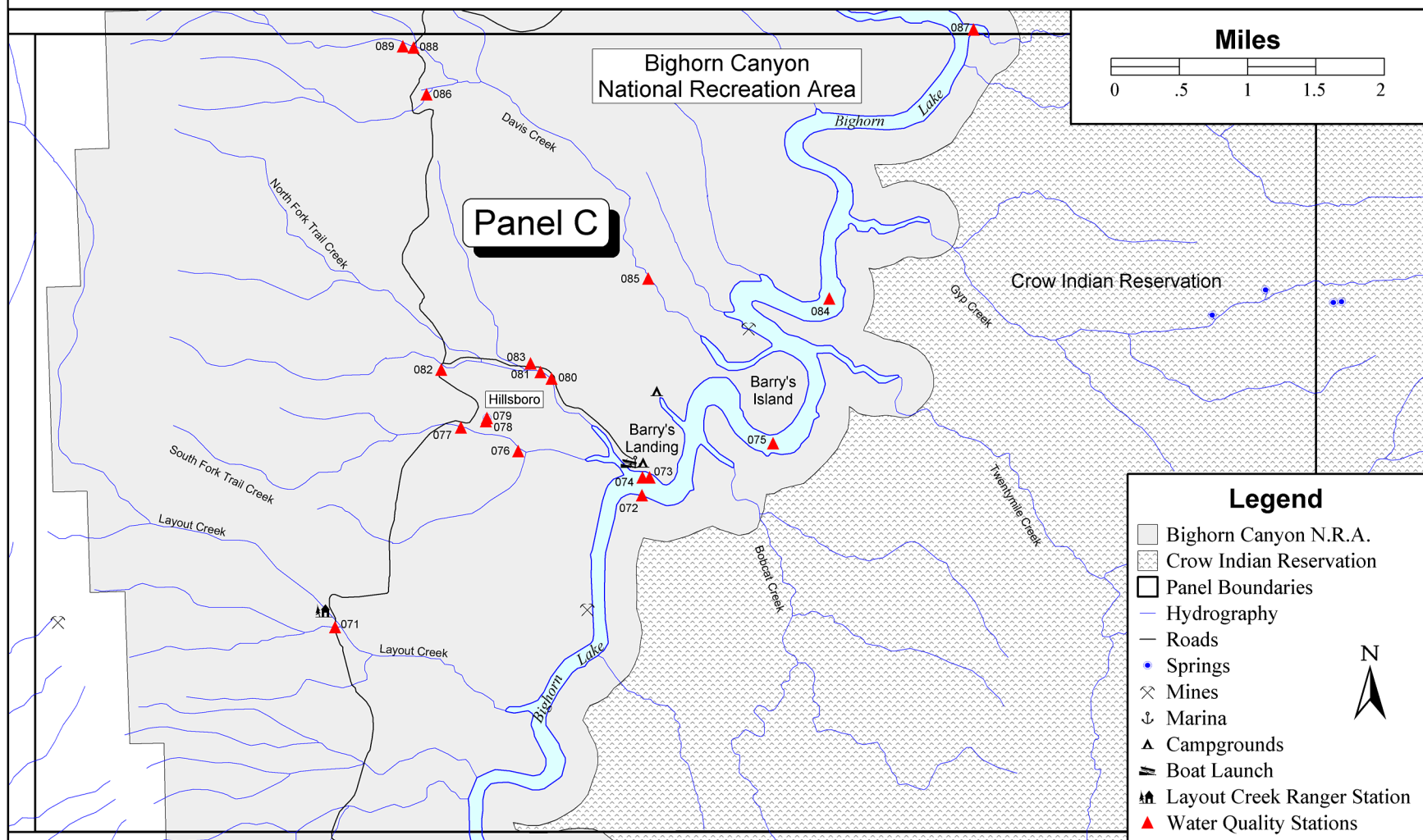
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



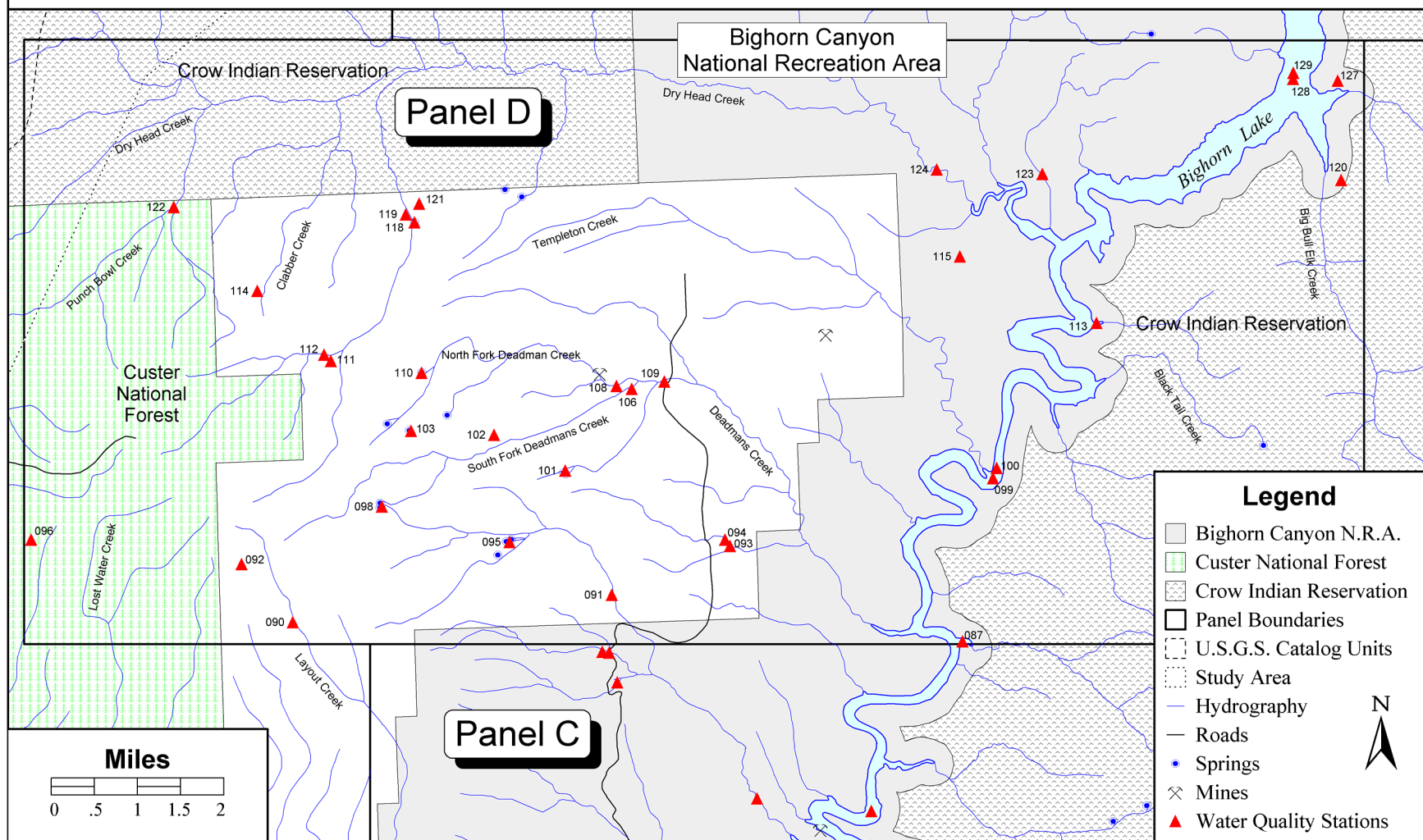
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



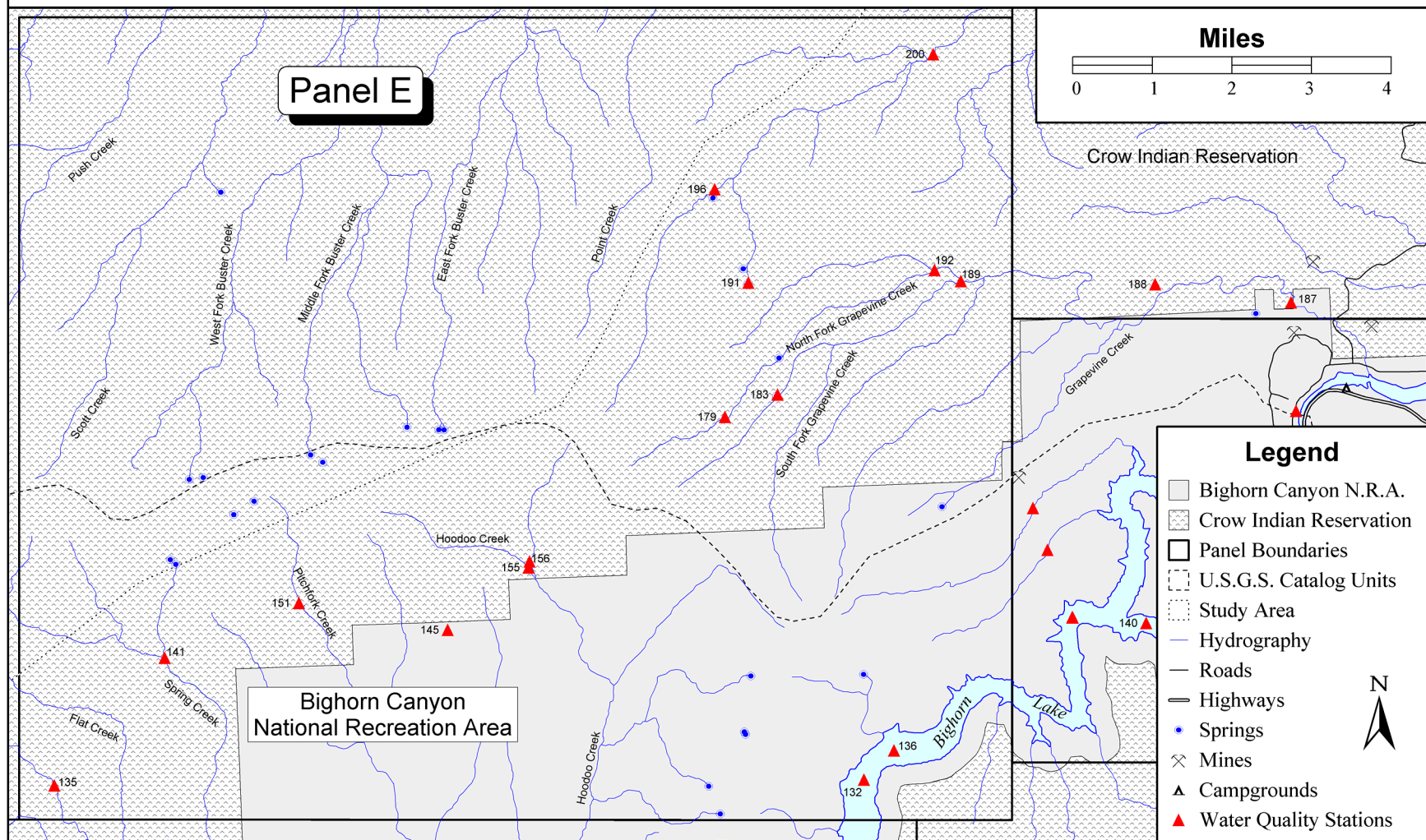
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



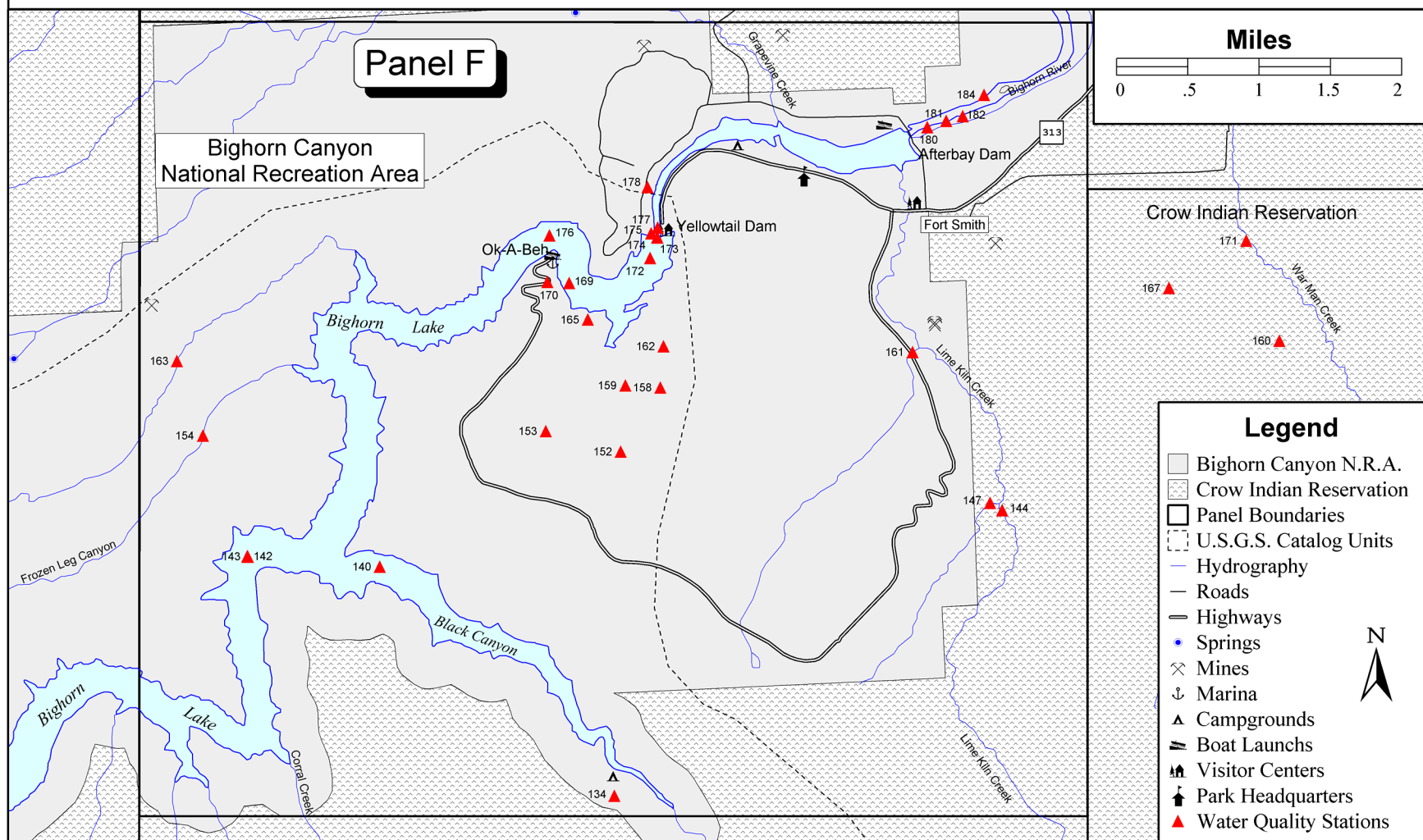
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



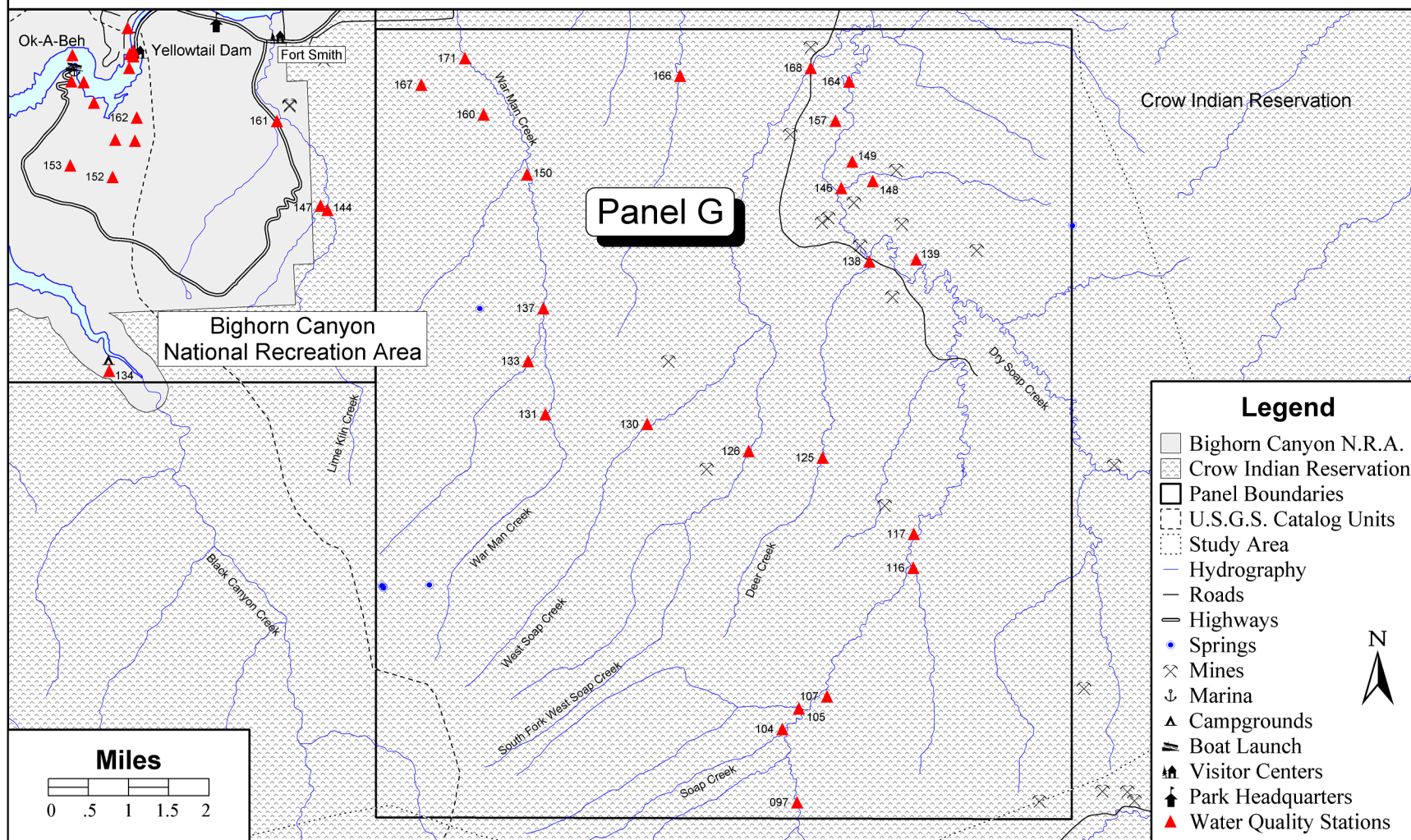
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



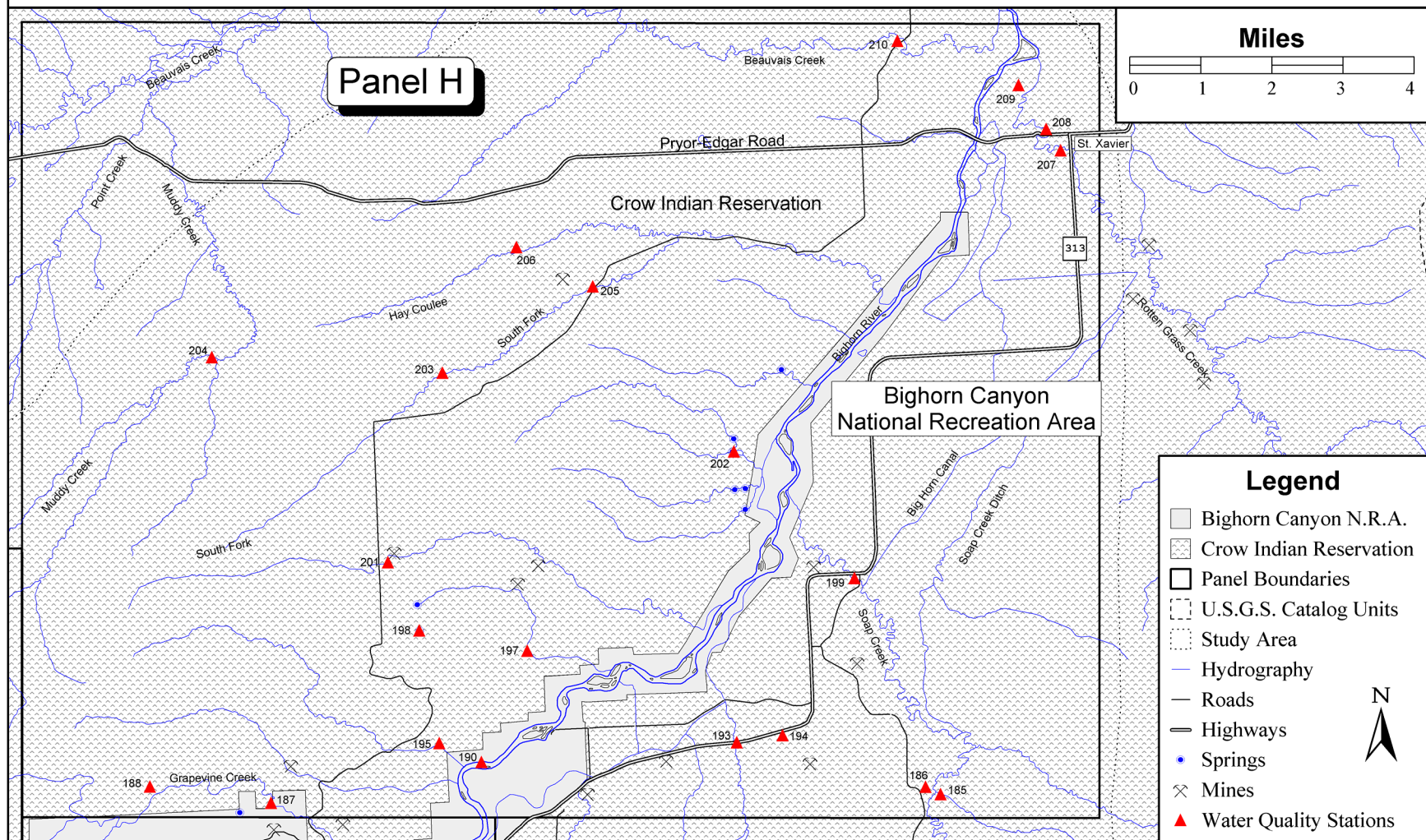
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



Bighorn Canyon National Recreation Area

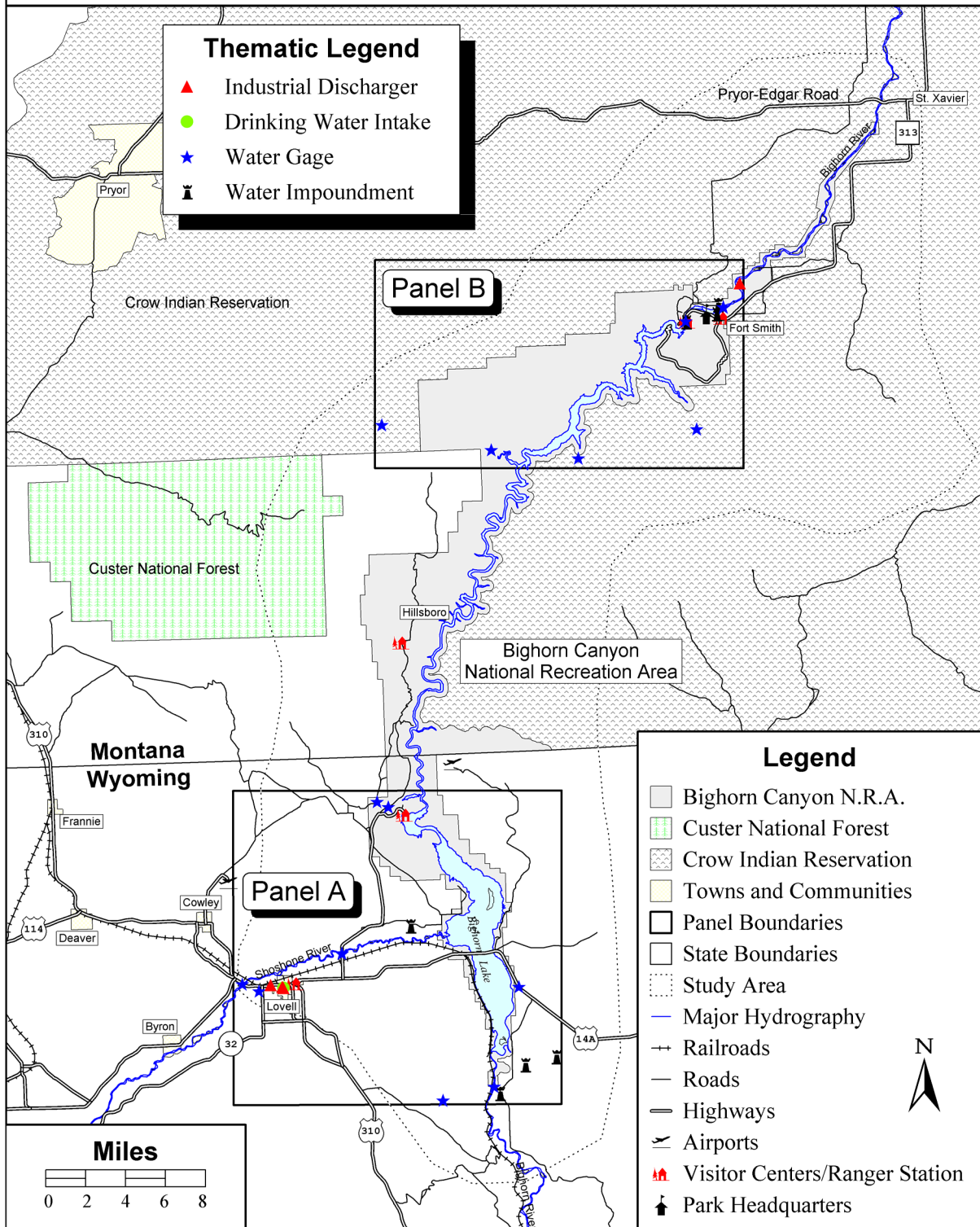
Water Quality Monitoring Locations



Bighorn Canyon National Recreation Area

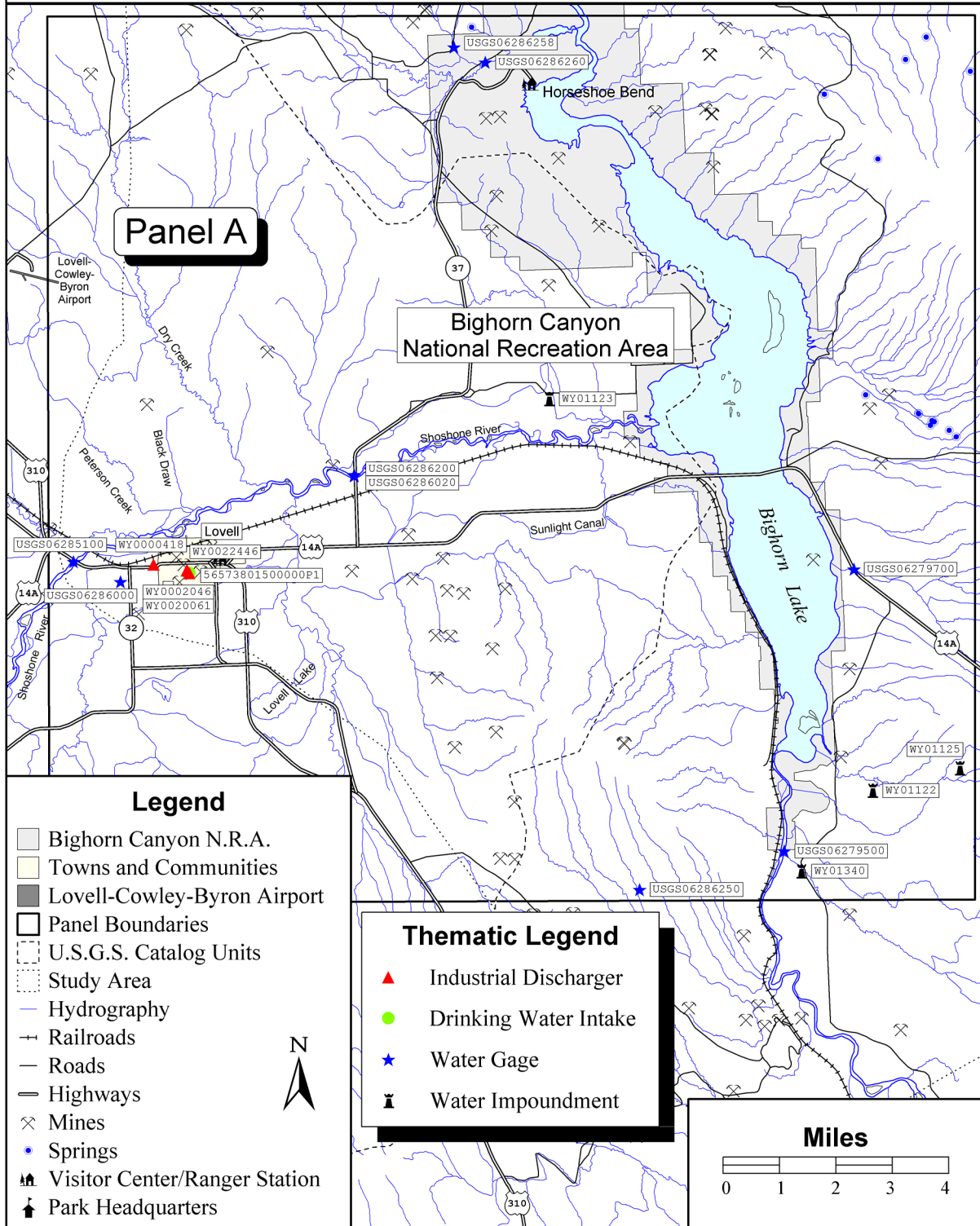
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

Graphic Panel Index



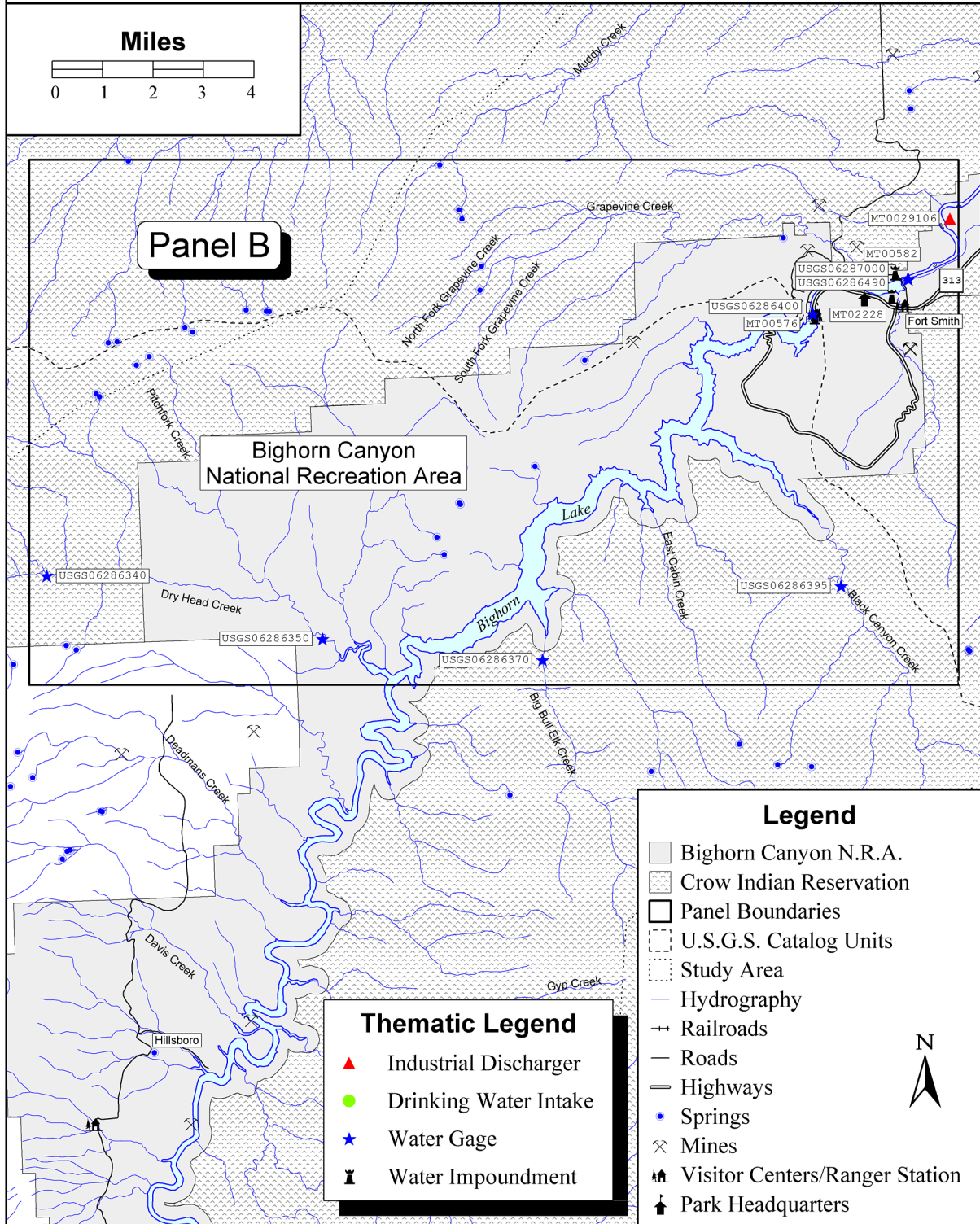
Bighorn Canyon National Recreation Area

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Bighorn Canyon National Recreation Area

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the BICA Study Area

Industrial Facility Discharges

| <u>Site ID</u> | <u>Station/Facility Name</u> | <u>Address</u> | <u>City</u> | <u>Facility Receiving Water</u> |
|----------------|--------------------------------|---------------------------|-------------|---------------------------------|
| <u>Name</u> | | | | |
| MT0029106 | USDOJ BOR BIG HORN NTL REC ARE | P O BOX 528 YRS | FORT SMITH | |
| WY0000418 | WESTERN SUGAR CO LOVELL | 1700 BROADWAY, SUITE 1600 | DENVER | TR TO SHOSHONE R |
| WY0002046 | WYO FISH & GAME TILLET SPGS | 5400 BISHOP BLVD | LOVELL | |
| WY0020061 | LOVELL TOWN OF | | LOVELL | |
| WY0022446 | BISCHOFF LIVESTOCK CO | P O BOX 815 | LOVELL | |

Drinking Water Intakes

| <u>Site ID</u> | <u>Station/Facility Name</u> | <u>City</u> | <u>Population Served</u> | <u>Avg. Daily Production</u> <u>(Gal./Day)</u> |
|------------------|------------------------------|-------------|--------------------------|---------------------------------------------------|
| 56573801500000P1 | TREATMENT PLANT | LOVELL | 2800 | 0000.00 |

Water Gages

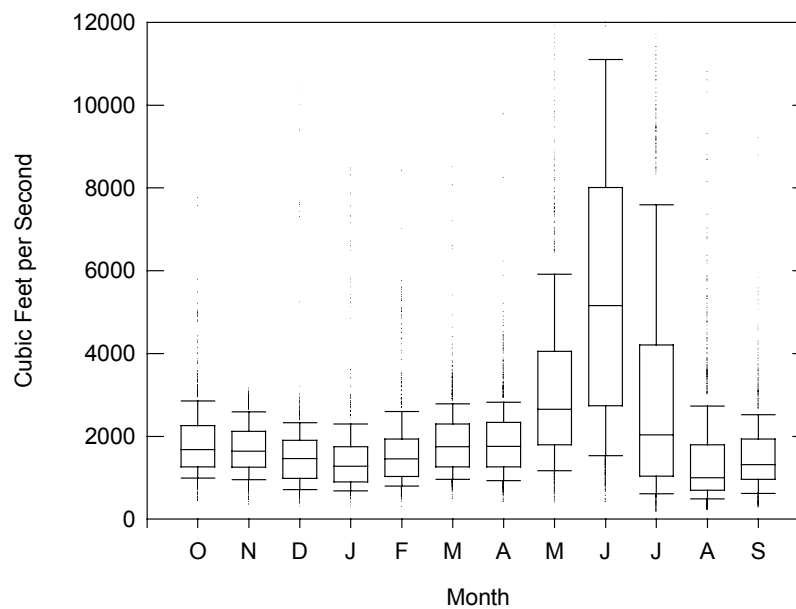
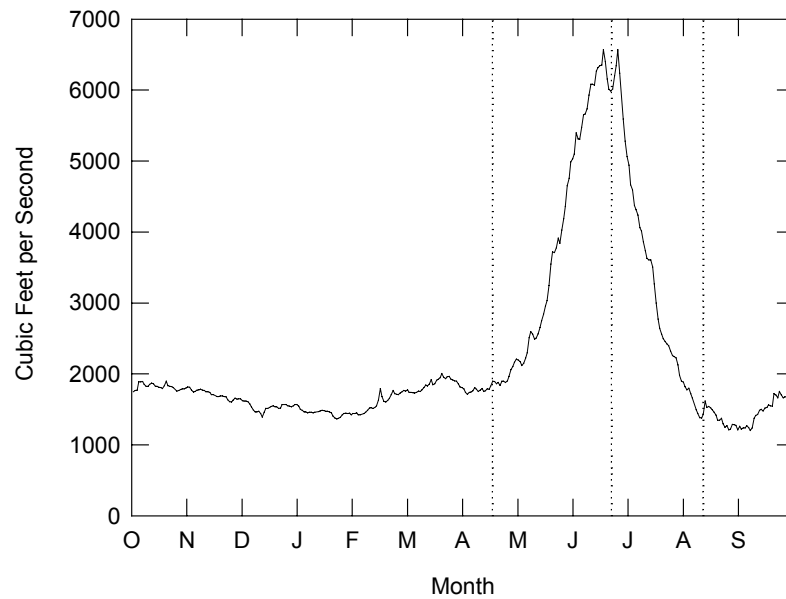
| <u>Site ID</u> | <u>Station Name</u> | <u>Site Type</u> | <u>Drainage Area</u> <u>(Square Miles)</u> | <u>Begin Year</u> | <u>End Year</u> |
|----------------|--------------------------------------------------|------------------|-----------------------------------------------|-------------------|-----------------|
| USGS06279500 | BIGHORN R AT KANE WYO | Stream | 15676.0 | 1929 | 1997 |
| USGS06279700 | WILLOW CREEK NEAR KA | Stream | 14.00 | | |
| USGS06285100 | SHOSHONE RIVER NEAR LOVELL WYO | Stream | 2350.00 | 1967 | 1997 |
| USGS06286258 | BIG COULEE NEAR LOVELL, WYO. | Stream | 28.80 | 1970 | 1978 |
| USGS06286400 | BIGHORN LK NR ST XAV | Lake | 19626.0 | | |
| USGS06287000 | BIGHORN RIVER NEAR ST. XAVIER, MT. | Stream | 19667.0 | 1935 | 1997 |
| USGS06286340 | DRY HEAD CREEK NEAR PRYOR, MT. | Stream | 58.00 | 1965 | 1966 |
| USGS06286350 | DRY HEAD CREEK ABOVE HOODOO CREEK, NR PRYOR, MT. | Stream | 80.00 | 1966 | 1968 |
| USGS06286370 | BIG BULL ELK CREEK NEAR ST XAVIER, MT. | Stream | 35.00 | 1965 | 1968 |
| USGS06286395 | BLACK CANYON C BL T S CREEK, NR ST XAVIER, MT. | Stream | 75.00 | 1966 | 1968 |
| USGS06286490 | BIG HORN CANAL NEAR ST. XAVIER, MT. | Stream | | 1988 | 1992 |
| USGS06286000 | SHOSHONE RIVER AT LOVELL WYO | Stream | 2832.00 | 1897 | 1898 |
| USGS06286020 | SHOSHONE R BL BIG FORK CANAL NR LOVELL, WYO. | Stream | | | |
| USGS06286200 | SHOSHONE RIVER AT KANE, WY | Stream | 2989.00 | 1958 | 1968 |
| USGS06286250 | BIGHORN R NR LOVELL WYO | Stream | 18900.0 | 1965 | 1966 |
| USGS06286260 | CROOKED C NR LOVELL WYO | Stream | 119.00 | 1965 | 1968 |

Water Impoundments

| <u>Site ID</u> | <u>Impoundment Name</u> | <u>Owner</u> | <u>Primary Purpose</u> | <u>Type of Dam</u> | <u>Downstream Hazard</u> | <u>Year Completed</u> |
|----------------|-------------------------------|--------------------------|------------------------|--------------------|--------------------------|-----------------------|
| MT00576 | YELLOWTAIL | DOI BR | Irrig. | V. Arch | High | 1966 |
| MT00582 | YELLOWTAIL AFTERBAY | DOI BR | Irrig. | Gravity | Low | 1965 |
| MT02228 | FORT SMITH SEWAGE DISPOSAL P. | DOI BR | Other | Earth | Low | 1962 |
| WY01122 | FIVE SPRINGS NO 2 | H D BISCHOFF | Irrig. | Earth | Low | 1970 |
| WY01123 | HORSESHOE | WYOMING GAME & FISH COMM | Other | Earth | Low | 1969 |
| WY01125 | FIVE SPRINGS NO 1 | H D BISCHOFF | Irrig. | Earth | Low | 1970 |
| WY01340 | BISCHOFF CREEK | H D BISCHOFF | Irrig. | Earth | Low | 1974 |

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

BIGHORN CANYON NATIONAL RECREATION AREA
Bighorn River at Kane, WY
06279500; 61 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Bighorn Canyon National Recreation Area are: Aug. 10 to Apr. 14, Apr. 15 to Jun. 19, and Jun. 20 to Aug. 9.

CONTACTS FOR AGENCY CODES RETRIEVED FOR BICA

| <u>AGENCY</u> | <u>PRIMARY CONTACT NAME</u> | <u>ORGANIZATION</u> | <u>PHONE NUMBER(S)</u> | |
|---------------|-----------------------------|--------------------------|------------------------|---------------|
| 11NPSWRD | TUCKER, DEAN | NATIONAL PARK SERVICE | (970)225-3516 | (970)225-3518 |
| 112WRD | BRIGGS, JOHN | US GEOLOGICAL SURVEY | (703)648-5624 | |
| 1110NET | STORET USER ASSISTANCE | USEPA HQ | (202)260-7050 | (800)424-9067 |
| 11EPALES | LAMBOU, VICTOR W. | USEPA | (702)798-2259 | |
| 21WYDHSS | PRATT, BETH | WYOMING DEPT ENV QUALITY | (307)777-7079 | |
| 11NATDC | HOELMAN, LOUIS | USEPA HQ | (202)260-7050 | |
| 21MTHDWQ | MITTELSTEDT, DON | MT DEQ-DATA MANAGEMENT | (406)444-2407 | |

QUANTITY OF DATA RETRIEVED FOR BICA BY AGENCY CODE
WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

| Agency | Organization | Period of Record | | Water Quality Stations | | Longer Term ¹ Stations | | No Data Stations | | Water Quality Observations | | Water Quality Parameters | |
|----------|--------------------------|-------------------|-------------------|------------------------|------|-----------------------------------|------|------------------|------|----------------------------|-------|--------------------------|------|
| | | Study Area | Park Only | S.A. | Park | S.A. | Park | S.A. | Park | S.A. | Park | S.A. | Park |
| 11NPSWRD | NATIONAL PARK SERVICE | 07/15/56-09/06/95 | 07/15/56-09/06/95 | 157 | 60 | 6 | 6 | 0 | 0 | 30190 | 26825 | 112 | 96 |
| 112WRD | US GEOLOGICAL SURVEY | 01/01/01-04/14/97 | 10/01/66-02/11/97 | 11 | 4 | 5 | 1 | 0 | 0 | 39315 | 6640 | 313 | 72 |
| 1110NET | USEPA HQ | 07/19/72-10/31/73 | No Data in Park | 1 | 0 | 0 | 0 | 0 | 0 | 75 | 0 | 15 | 0 |
| 11EPALES | USEPA | 10/05/74-10/17/75 | 10/05/74-10/17/75 | 12 | 10 | 0 | 0 | 0 | 0 | 2009 | 1886 | 18 | 18 |
| 21WYDHSS | WYOMING DEPT ENV QUALITY | 03/24/67-08/25/88 | 03/24/67-08/25/88 | 9 | 5 | 3 | 1 | 1 | 1 | 731 | 361 | 34 | 22 |
| 11NATDC | USEPA HQ | No Data in S.A. | No Data in Park | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 21MTHDWQ | MT DEQ-DATA MANAGEMENT | 11/19/73-03/02/84 | 05/04/74-07/06/77 | 19 | 8 | 2 | 0 | 1 | 0 | 1211 | 180 | 55 | 33 |
| Totals | | 01/01/01-04/14/97 | 07/15/56-02/11/97 | 210 | 87 | 16 | 8 | 3 | 1 | 73531 | 35892 | 397 | 159 |

¹Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Station Period of Record Tabulation From 01/01/01 To 04/14/97

| Station Ident. | Location Description | In Park | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 |
|----------------|------------------------------------------------------------------|---------|-----------|----------------------|----------------------|-----------------|
| BICA0001 | BIGHORN RIVER SOUTH OF KANE WY | No | 227 | 0 | 0 | 227 |
| BICA0002 | BIGHORN R AT KANE WYO | No | 18360 | 2019 | 3764 | 12577 |
| BICA0003 | BIGHORN RIVER AT KANE, WYOMING | No | 75 | 0 | 0 | 75 |
| BICA0004 | BIG HORN RIVER | No | 55 | 0 | 38 | 17 |
| BICA0005 | BIGHORN RIVER AT USGS 06279500 | No | 5 | 0 | 5 | 0 |
| BICA0006 | BIGHORN RIVER 6.5 MILES SOUTH OF KANE WYOMING | No | 1130 | 0 | 0 | 1130 |
| BICA0007 | W00313 | No | 4 | 0 | 4 | 0 |
| BICA0008 | W00216 | Yes | 4 | 0 | 4 | 0 |
| BICA0009 | W00316 | No | 4 | 0 | 4 | 0 |
| BICA0010 | BIGHORN RIVER 1/2 MILE SOUTH OF BIGHORN LAKE | Yes | 69 | 0 | 69 | 0 |
| BICA0011 | W00312 | No | 4 | 0 | 4 | 0 |
| BICA0012 | W00261 | No | 4 | 0 | 4 | 0 |
| BICA0013 | WILCOCK POND EAST OF LOVELL WY | No | 6 | 0 | 0 | 6 |
| BICA0014 | CITY OF LOVELL WY | No | 10 | 0 | 0 | 10 |
| BICA0015 | LOVELL WTP INTAKE-SHOSHONE RIVER | No | 76 | 24 | 52 | 0 |
| BICA0016 | SHOSHONE R 1 MILE W OF LOVELL | No | 170 | 0 | 0 | 170 |
| BICA0017 | W00218 | No | 4 | 0 | 4 | 0 |
| BICA0018 | W00219 | No | 4 | 0 | 4 | 0 |
| BICA0019 | SHOSHONE RIVER NEAR LOVELL WYO | No | 8511 | 999 | 2779 | 4733 |
| BICA0020 | SHOSHONI RIVER NEAR LOVELL | No | 119 | 0 | 119 | 0 |
| BICA0021 | SHOSHONE RIVER NR LOVELL WY | No | 84 | 0 | 84 | 0 |
| BICA0022 | SHOSHONE RIVER NR LOVELL WY | No | 38 | 0 | 38 | 0 |
| BICA0023 | SHOSHONE RIVER 1/2 MILE NORTH OF LOVELL WYOMING | No | 72 | 0 | 72 | 0 |
| BICA0024 | BIGHORN R AT BIGHORN LAKE NR KAN | Yes | 3 | 0 | 3 | 0 |
| BICA0025 | SHOSHONE RIVER | No | 68 | 0 | 50 | 18 |
| BICA0026 | SHOSHONE RIVER AT KANE, WY | No | 5637 | 285 | 842 | 4510 |
| BICA0027 | SHOSHONE R AT KANE | No | 0 | 0 | 0 | 0 |
| BICA0028 | SHOSHONE R BL SAND DRAW NR LOVEL | No | 1 | 0 | 1 | 0 |
| BICA0029 | SHOSHONE RIVER 1 MILE NORTH OF KANE WYOMING | Yes | 1280 | 0 | 0 | 1280 |
| BICA0030 | W00113 | No | 4 | 0 | 4 | 0 |
| BICA0031 | BIGHORN LAKE 1 MILE EAST OF SHOSHONE RIVER INLET | Yes | 5 | 0 | 5 | 0 |
| BICA0032 | YELLOWTAIL RESERVOIR-BELOW INLET | Yes | 44 | 23 | 21 | 0 |
| BICA0033 | W00223 | No | 4 | 0 | 4 | 0 |
| BICA0034 | YELLOWTAIL RESERVOIR | Yes | 92 | 0 | 92 | 0 |
| BICA0035 | BIG HORN R AT KANE, WYO | No | 0 | 0 | 0 | 0 |
| BICA0036 | YELLOWTAIL RESERVOIR EAST OF LOVELL WY | Yes | 209 | 0 | 0 | 209 |
| BICA0037 | W00109 | No | 4 | 0 | 4 | 0 |
| BICA0038 | W00250 | No | 4 | 0 | 4 | 0 |
| BICA0039 | BIGHORN LAKE 50 MILES FROM DAM | Yes | 751 | 0 | 0 | 751 |
| BICA0040 | W00108 | No | 4 | 0 | 4 | 0 |
| BICA0041 | W00251 | No | 4 | 0 | 4 | 0 |
| BICA0042 | BIGHORN LAKE AT WEST END OF THE NARROWS | Yes | 6 | 0 | 6 | 0 |
| BICA0043 | W00107 | No | 4 | 0 | 4 | 0 |
| BICA0044 | HORSESHOE RESERVOIR NORTHEAST OF LOVELL WY | Yes | 5 | 0 | 0 | 5 |
| BICA0045 | YELLOWTAIL RES-HORSESHOE BEND | Yes | 0 | 0 | 0 | 0 |
| BICA0046 | BIG HORN LAKE BLW HORSESHOE BEND | Yes | 140 | 0 | 0 | 140 |
| BICA0047 | BIG HORN LAKE BLW HORSESHOE BEND | Yes | 130 | 0 | 15 | 115 |
| BICA0048 | W00252 | No | 4 | 0 | 4 | 0 |
| BICA0049 | YELLOWTAIL RESERVOIR | Yes | 172 | 0 | 172 | 0 |
| BICA0050 | BIGHORN LAKE AT HORSESHOE BEND | Yes | 74 | 0 | 74 | 0 |
| BICA0051 | BIGHORN LAKE AT HORSESHOE BEND BOAT DOCK | Yes | 144 | 14 | 123 | 7 |
| BICA0052 | BIGHORN LAKE AT HORSESHOE BEND | Yes | 185 | 185 | 0 | 0 |
| BICA0053 | BIGHORN LAKE AT HORSESHOE BEND SWIM BEACH | Yes | 160 | 30 | 122 | 8 |
| BICA0054 | W00253 | No | 4 | 0 | 4 | 0 |
| BICA0055 | YELLOWTAIL RESERVOIR-HORSESHOE BEND | Yes | 47 | 26 | 21 | 0 |
| BICA0056 | CROOKED CREEK | Yes | 69 | 0 | 58 | 11 |
| BICA0057 | TILLET'S POND NORTHEAST OF LOVELL WY | Yes | 6 | 0 | 0 | 6 |
| BICA0058 | W00258 | No | 4 | 0 | 4 | 0 |
| BICA0059 | BIG COULEE NEAR LOVELL, WYO. | No | 138 | 0 | 33 | 105 |
| BICA0060 | W00257 | No | 4 | 0 | 4 | 0 |
| BICA0061 | TILLET SPRING MARKED AS SYKES SPRING ON TOPO MAP | No | 23 | 0 | 0 | 23 |
| BICA0062 | LITTLE SYKES SPRING 400 YD NORTH OF SYKES SPRING | No | 3 | 0 | 0 | 3 |
| BICA0063 | BRITTON SPRING 3 1/2 MILES WEST OF SYKES SPRING | No | 3 | 0 | 0 | 3 |
| BICA0064 | 58-095-20bca01 BRITTON WELL | No | 20 | 20 | 0 | 0 |
| BICA0065 | BIGHORN LAKE NEAR MONTANA-WYOMING STATE LINE | Yes | 491 | 0 | 0 | 491 |
| BICA0066 | BIGHORN LAKE 40 MILES FROM DAM | Yes | 1345 | 0 | 0 | 1345 |
| BICA0067 | PORCUPINE CREEK NEAR FORT SMITH YELLOWTAI | Yes | 22 | 0 | 0 | 22 |
| BICA0068 | BIGHORN LAKE AT MOUTH OF DEVIL CANYON | Yes | 6 | 0 | 6 | 0 |
| BICA0069 | YELLOWTAIL RESERVOIR | Yes | 243 | 0 | 243 | 0 |

Station Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station Ident. | Location Description | In Park | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 |
|-------------------|----------------------------------------------------------------|------------|--------------|-------------------------|-------------------------|--------------------|
| BICA0070 | BIGHORN LAKE NEAR DEVILS PLAYGROUND | Yes | 630 | 0 | 0 | 630 |
| BICA0071 | M39503 | Yes | 15 | 0 | 15 | 0 |
| BICA0072 | BIGHORN LAKE NEAR BARRYS LANDING | Yes | 728 | 0 | 0 | 728 |
| BICA0073 | BIGHORN LAKE AT BARRYS LANDING | Yes | 931 | 931 | 0 | 0 |
| BICA0074 | BIGHORN LAKE AT BARRY'S LANDING | Yes | 62 | 0 | 62 | 0 |
| BICA0075 | BIGHORN LAKE 30 MILES FROM DAM | Yes | 1847 | 0 | 0 | 1847 |
| BICA0076 | M38794 | Yes | 16 | 0 | 16 | 0 |
| BICA0077 | UPSTREAM SPRING ON SOUTH FORK TRAIL CREEK | Yes | 2 | 0 | 0 | 2 |
| BICA0078 | M38795 | Yes | 15 | 0 | 15 | 0 |
| BICA0079 | DOWNSTREAM SPRING ON SOUTH FORK TRAIL CREEK | Yes | 2 | 0 | 0 | 2 |
| BICA0080 | DOWNSTREAM SPRING ON NORTH FORK TRAIL CREEK | Yes | 2 | 0 | 0 | 2 |
| BICA0081 | M38792 | Yes | 15 | 0 | 15 | 0 |
| BICA0082 | M38793 | Yes | 14 | 0 | 14 | 0 |
| BICA0083 | UPSTREAM SPRING ON NORTH FORK TRAIL CREEK | Yes | 2 | 0 | 0 | 2 |
| BICA0084 | YELLOWTAIL RESERVOIR | Yes | 307 | 0 | 307 | 0 |
| BICA0085 | M38796 | Yes | 16 | 0 | 16 | 0 |
| BICA0086 | M38797 | Yes | 15 | 0 | 15 | 0 |
| BICA0087 | BIGHORN LAKE NEAR DEADMANS CREEK | Yes | 950 | 0 | 0 | 950 |
| BICA0088 | M38791 | Yes | 14 | 0 | 14 | 0 |
| BICA0089 | M38790 | Yes | 14 | 0 | 14 | 0 |
| BICA0090 | M39575 | No | 16 | 0 | 16 | 0 |
| BICA0091 | M38789 | No | 16 | 0 | 16 | 0 |
| BICA0092 | M39576 | No | 16 | 0 | 16 | 0 |
| BICA0093 | M38787 | No | 15 | 0 | 15 | 0 |
| BICA0094 | M38788 | No | 15 | 0 | 15 | 0 |
| BICA0095 | M38800 | No | 16 | 0 | 16 | 0 |
| BICA0096 | M39574 | No | 16 | 0 | 16 | 0 |
| BICA0097 | 129582 | No | 31 | 0 | 31 | 0 |
| BICA0098 | M38799 | No | 16 | 0 | 16 | 0 |
| BICA0099 | BIGHORN LAKE 20 MILES FROM DAM | Yes | 2378 | 0 | 0 | 2378 |
| BICA0100 | BIGHORN LAKE 1/4 MILE WEST OF DEAD INDIAN HILL | Yes | 6 | 0 | 6 | 0 |
| BICA0101 | M38801 | No | 16 | 0 | 16 | 0 |
| BICA0102 | M39500 | No | 16 | 0 | 16 | 0 |
| BICA0103 | M39501 | No | 16 | 0 | 16 | 0 |
| BICA0104 | 129580 | No | 32 | 0 | 32 | 0 |
| BICA0105 | 129579 | No | 32 | 0 | 32 | 0 |
| BICA0106 | M38781 | No | 16 | 0 | 16 | 0 |
| BICA0107 | 129577 | No | 32 | 0 | 32 | 0 |
| BICA0108 | M38780 | No | 16 | 0 | 16 | 0 |
| BICA0109 | M38779 | No | 15 | 0 | 15 | 0 |
| BICA0110 | M39502 | No | 16 | 0 | 16 | 0 |
| BICA0111 | M39565 | No | 15 | 0 | 15 | 0 |
| BICA0112 | M39566 | No | 15 | 0 | 15 | 0 |
| BICA0113 | BIGHORN LAKE NEAR DRYHEAD CANYON | Yes | 1065 | 0 | 0 | 1065 |
| BICA0114 | M39567 | No | 14 | 0 | 14 | 0 |
| BICA0115 | DRY HEAD CREEK NEAR FORT SMITH YELLOWTAIL | Yes | 22 | 0 | 0 | 22 |
| BICA0116 | 129573 | No | 32 | 0 | 32 | 0 |
| BICA0117 | 129578 | No | 32 | 0 | 32 | 0 |
| BICA0118 | M39569 | No | 14 | 0 | 14 | 0 |
| BICA0119 | M39570 | No | 15 | 0 | 15 | 0 |
| BICA0120 | BIG BULL ELK CREEK NEAR FORT SMITH YELLOW | Yes | 21 | 0 | 0 | 21 |
| BICA0121 | M39571 | No | 15 | 0 | 15 | 0 |
| BICA0122 | M39568 | No | 15 | 0 | 15 | 0 |
| BICA0123 | HOODOO CREEK NEAR FORT SMITH YELLOWTAIL R | Yes | 22 | 0 | 0 | 22 |
| BICA0124 | DRY HEAD CREEK | Yes | 25 | 0 | 13 | 12 |
| BICA0125 | 129576 | No | 30 | 0 | 30 | 0 |
| BICA0126 | 129603 | No | 32 | 0 | 32 | 0 |
| BICA0127 | LITTLE BULL ELK CRK NEAR FORT SMITH YELL | Yes | 22 | 0 | 0 | 22 |
| BICA0128 | YELLOWTAIL RESERVOIR | Yes | 320 | 0 | 320 | 0 |
| BICA0129 | BIGHORN LAKE AT MOUTH OF BIG BULL ELK CANYON | Yes | 6 | 0 | 6 | 0 |
| BICA0130 | 129617 | No | 32 | 0 | 32 | 0 |
| BICA0131 | 129618 | No | 32 | 0 | 32 | 0 |
| BICA0132 | BIGHORN LAKE 10 MILES FROM DAM | Yes | 2764 | 0 | 0 | 2764 |
| BICA0133 | 129619 | No | 33 | 0 | 33 | 0 |
| BICA0134 | BLACK CANYON CREEK NR FORT SMITH-YELLOWTA | Yes | 22 | 0 | 0 | 22 |
| BICA0135 | M38069 | No | 16 | 0 | 16 | 0 |
| BICA0136 | BIGHORN LAKE NEAR LITTLE BULL ELK CREEK | Yes | 912 | 0 | 0 | 912 |
| BICA0137 | 129620 | No | 31 | 0 | 31 | 0 |
| BICA0138 | 129574 | No | 32 | 0 | 32 | 0 |

Station Period of Record Tabulation From 01/01/01 To 04/14/97

| Station Ident. | Location Description | In Park | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 |
|----------------|------------------------------------------------------------------|---------|-----------|----------------------|----------------------|-----------------|
| BICA0139 | SOAP CREEK ABOVE OIL FIELD NEAR FT. SMITH | No | 224 | 0 | 224 | 0 |
| BICA0140 | YELLOWTAIL RESERVOIR | Yes | 295 | 0 | 295 | 0 |
| BICA0141 | M38070 | No | 16 | 0 | 16 | 0 |
| BICA0142 | BIGHORN LAKE 1/2 MILE WEST OF BLACK CANYON | Yes | 6 | 0 | 6 | 0 |
| BICA0143 | BIGHORN LAKE NEAR BLACK CANYON | Yes | 1027 | 0 | 0 | 1027 |
| BICA0144 | 129654 | No | 33 | 0 | 33 | 0 |
| BICA0145 | M38079 | Yes | 16 | 0 | 16 | 0 |
| BICA0146 | 129614 | No | 30 | 0 | 30 | 0 |
| BICA0147 | 129653 | No | 64 | 0 | 64 | 0 |
| BICA0148 | SOAP CREEK JUST ABOVE POND DISCHARGE | No | 3 | 0 | 3 | 0 |
| BICA0149 | SOAP CREEK 200 YDS BELOW POND DISCHARGE | No | 3 | 0 | 3 | 0 |
| BICA0150 | 129622 | No | 32 | 0 | 32 | 0 |
| BICA0151 | M38073 | No | 16 | 0 | 16 | 0 |
| BICA0152 | SITE 19 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM | Yes | 41 | 0 | 0 | 41 |
| BICA0153 | SITE 9 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM | Yes | 41 | 0 | 0 | 41 |
| BICA0154 | M38089 | Yes | 16 | 0 | 16 | 0 |
| BICA0155 | M38080 | No | 16 | 0 | 16 | 0 |
| BICA0156 | M38081 | No | 16 | 0 | 16 | 0 |
| BICA0157 | 129615 | No | 32 | 0 | 32 | 0 |
| BICA0158 | SITE 18 AT A SPRING DUE SOUTH OF YELLOWTAIL DAM | Yes | 19 | 0 | 0 | 19 |
| BICA0159 | SITE 15 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM | Yes | 19 | 0 | 0 | 19 |
| BICA0160 | 129623 | No | 32 | 0 | 32 | 0 |
| BICA0161 | 129652 | Yes | 33 | 0 | 33 | 0 |
| BICA0162 | SITE 17 AT A SPRING DUE SOUTH OF YELLOWTAIL DAM | Yes | 19 | 0 | 0 | 19 |
| BICA0163 | M38088 | Yes | 16 | 0 | 16 | 0 |
| BICA0164 | SOAP CREEK 400 YDS BELOW POND DISCHARGE | No | 3 | 0 | 3 | 0 |
| BICA0165 | SITE 14 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM | Yes | 41 | 0 | 0 | 41 |
| BICA0166 | 129625 | No | 32 | 0 | 32 | 0 |
| BICA0167 | 129655 | No | 32 | 0 | 32 | 0 |
| BICA0168 | 129606 | No | 33 | 0 | 33 | 0 |
| BICA0169 | BIGHORN LAKE 1 MILE SOUTHWEST OF YELLOWTAIL DAM | Yes | 65 | 0 | 0 | 65 |
| BICA0170 | SITE 1 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM | Yes | 41 | 0 | 0 | 41 |
| BICA0171 | 129624 | No | 32 | 0 | 32 | 0 |
| BICA0172 | YELLOWTAIL RESERVOIR | Yes | 321 | 0 | 321 | 0 |
| BICA0173 | BIGHORN LAKE AT YELLOWTAIL DAM | Yes | 6 | 0 | 6 | 0 |
| BICA0174 | BIGHORN LAKE AT YELLOWTAIL DAM | Yes | 5608 | 0 | 0 | 5608 |
| BICA0175 | BIG HORN RIVER | Yes | 42 | 0 | 30 | 12 |
| BICA0176 | BIGHORN LAKE NEAR YELLOWTAIL DAM | Yes | 1273 | 0 | 0 | 1273 |
| BICA0177 | EFFLUENT WATERS (DISCHARGE) FROM YELLOWTAIL DAM | Yes | 1290 | 0 | 0 | 1290 |
| BICA0178 | BIGHORN RIVER BELOW AFTER BAY | Yes | 4 | 0 | 4 | 0 |
| BICA0179 | M38082 | No | 16 | 0 | 16 | 0 |
| BICA0180 | BIGHORN RIVER NEAR ST. XAVIER, MT. | Yes | 6619 | 605 | 2151 | 3863 |
| BICA0181 | BIGHORN RIVER NEAR ST. XAVIER | Yes | 45 | 0 | 45 | 0 |
| BICA0182 | BIGHORN RIVER NEAR FORT SMITH RUINS | Yes | 87 | 0 | 0 | 87 |
| BICA0183 | M38087 | No | 16 | 0 | 16 | 0 |
| BICA0184 | BIGHORN RIVER NR FORT SMITH | Yes | 8 | 8 | 0 | 0 |
| BICA0185 | 129616 | No | 30 | 0 | 30 | 0 |
| BICA0186 | SOAP CREEK NEAR ST. XAVIER | No | 223 | 0 | 223 | 0 |
| BICA0187 | 129657 | No | 32 | 0 | 32 | 0 |
| BICA0188 | 129658 | No | 32 | 0 | 32 | 0 |
| BICA0189 | M38086 | No | 16 | 0 | 16 | 0 |
| BICA0190 | BIGHORN RIVER 2.6 MI BL AFTERBAY DAM NR FORT SMI | Yes | 10 | 10 | 0 | 0 |
| BICA0191 | M38083 | No | 16 | 0 | 16 | 0 |
| BICA0192 | M38085 | No | 16 | 0 | 16 | 0 |
| BICA0193 | 129627 | No | 31 | 0 | 31 | 0 |
| BICA0194 | 129628 | No | 32 | 0 | 32 | 0 |
| BICA0195 | BIGHORN RIVER 3.3 MI BL AFTERBAY DAM NR FORT SMI | No | 8 | 8 | 0 | 0 |
| BICA0196 | M38084 | No | 16 | 0 | 16 | 0 |
| BICA0197 | 129672 | No | 31 | 0 | 31 | 0 |
| BICA0198 | 129671 | No | 33 | 0 | 33 | 0 |
| BICA0199 | SOAP CREEK HIWAY BRIDGE 313 SOUTH OF ST X | No | 279 | 0 | 222 | 57 |
| BICA0200 | M38056 | No | 15 | 0 | 15 | 0 |
| BICA0201 | 129670 | No | 32 | 0 | 32 | 0 |
| BICA0202 | 129660 | No | 30 | 0 | 30 | 0 |
| BICA0203 | 129669 | No | 30 | 0 | 30 | 0 |
| BICA0204 | 129682 | No | 32 | 0 | 32 | 0 |
| BICA0205 | 129666 | No | 30 | 0 | 30 | 0 |
| BICA0206 | 129677 | No | 30 | 0 | 30 | 0 |
| BICA0207 | ROTTENGRASS CREEK ABOVE ST XAVIER | No | 22 | 0 | 0 | 22 |

Station Period of Record Tabulation From 01/01/01 To 04/14/97

| Station Ident. | Location Description | In Park | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 |
|---------------------------------------|----------------------------------------------------------|------------|--------------|-------------------------|-------------------------|--------------------|
| BICA0208 | ROTTENGRASS CREEK BELOW ST XAVIER SEWAGE | No | 10 | 0 | 0 | 10 |
| BICA0209 ¹ | ROTTEN GRASS CREEK AT MOUTH | No | 248 | 0 | 248 | 0 |
| BICA0210 | BEAUVAIS CREEK 20 M S OF HARDIN | No | 16 | 0 | 16 | 0 |

¹Longer Term Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

**Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Parameter Code | Name | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Stations | |
|----------------|---------------------------------------------------|-----------|----------------------|----------------------|-----------------|----------|------|
| | | | | | | Total | Park |
| 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 7957 | 0 | 131 | 7826 | 26 | 24 |
| 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 129 | 0 | 129 | 0 | 7 | 7 |
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 7452 | 348 | 755 | 6349 | 159 | 54 |
| 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 280 | 257 | 0 | 23 | 18 | 15 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 527 | 317 | 147 | 63 | 15 | 11 |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 70 | 48 | 22 | 0 | 3 | 0 |
| 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 504 | 345 | 142 | 17 | 26 | 11 |
| 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 548 | 345 | 200 | 3 | 8 | 3 |
| 00041 | WEATHER (WMO CODE 4501) | 22 | 0 | 22 | 0 | 1 | 1 |
| 00042 | ALTITUDE IN FEET ABOVE MEAN SEA LEVEL | 1 | 0 | 0 | 1 | 1 | 0 |
| 00049 | SURFACE AREA IN SQUARE MILES | 287 | 0 | 0 | 287 | 2 | 0 |
| 00058 | FLOW, RATE GALLONS/MIN | 7 | 0 | 0 | 7 | 7 | 4 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 1059 | 0 | 7 | 1052 | 5 | 1 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 1087 | 343 | 480 | 264 | 17 | 4 |
| 00063 | SAMPLING POINTS, NUMBER OF IN A CROSS SECTION | 15 | 0 | 6 | 9 | 1 | 0 |
| 00065 | STAGE, STREAM (FEET) | 52 | 52 | 0 | 0 | 1 | 1 |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 637 | 0 | 86 | 551 | 14 | 9 |
| 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 2554 | 0 | 129 | 2425 | 13 | 13 |
| 00075 | TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE) | 3 | 0 | 0 | 3 | 1 | 0 |
| 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 41 | 0 | 41 | 0 | 4 | 0 |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 20 | 0 | 20 | 0 | 7 | 7 |
| 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 37 | 0 | 37 | 0 | 9 | 9 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 358 | 0 | 0 | 358 | 10 | 7 |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 2738 | 0 | 159 | 2579 | 21 | 16 |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 1781 | 327 | 483 | 971 | 133 | 36 |
| 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L | 91 | 0 | 0 | 91 | 1 | 1 |
| 00300 | OXYGEN, DISSOLVED MG/L | 617 | 48 | 295 | 274 | 30 | 19 |
| 00301 | OXYGEN, DISSOLVED, PERCENT OF SATURATION % | 7 | 0 | 7 | 0 | 1 | 0 |
| 00310 | BOD, 5 DAY, 20 DEG C MG/L | 14 | 0 | 1 | 13 | 3 | 1 |
| 00400 | PH (STANDARD UNITS) | 1491 | 79 | 478 | 934 | 142 | 38 |
| 00403 | PH, LAB, STANDARD UNITS SU | 275 | 39 | 100 | 136 | 19 | 8 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 169 | 0 | 72 | 97 | 4 | 2 |
| 00406 | PH, FIELD, STANDARD UNITS SU | 502 | 0 | 0 | 502 | 9 | 8 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 1060 | 0 | 378 | 682 | 37 | 27 |
| 00411 | ALKALINITY, METHYLORANGE MG/L | 24 | 0 | 0 | 24 | 5 | 3 |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 23 | 0 | 0 | 23 | 4 | 2 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 1244 | 0 | 199 | 1045 | 29 | 18 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 927 | 0 | 113 | 814 | 25 | 16 |
| 00515 | RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L | 9 | 0 | 9 | 0 | 1 | 0 |
| 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 35 | 0 | 35 | 0 | 6 | 1 |
| 00600 | NITROGEN, TOTAL (MG/L AS N) | 167 | 1 | 41 | 125 | 5 | 2 |
| 00602 | NITROGEN, DISSOLVED (MG/L AS N) | 101 | 0 | 0 | 101 | 3 | 2 |
| 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 38 | 1 | 36 | 1 | 3 | 1 |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 10 | 0 | 1 | 9 | 2 | 1 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 806 | 41 | 304 | 461 | 36 | 22 |
| 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | 8 | 0 | 1 | 7 | 2 | 1 |
| 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 457 | 0 | 2 | 455 | 15 | 10 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 121 | 0 | 55 | 66 | 3 | 1 |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 617 | 0 | 48 | 569 | 32 | 21 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 333 | 42 | 279 | 12 | 22 | 11 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 336 | 50 | 274 | 12 | 24 | 12 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 365 | 28 | 222 | 115 | 4 | 1 |
| 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 131 | 0 | 2 | 129 | 4 | 2 |
| 00653 | PHOSPHATE, TOTAL SOLUBLE (MG/L) | 115 | 0 | 0 | 115 | 4 | 2 |
| 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 74 | 0 | 0 | 74 | 3 | 2 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 663 | 0 | 44 | 619 | 14 | 10 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 631 | 65 | 505 | 61 | 69 | 18 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 255 | 9 | 161 | 85 | 3 | 1 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 342 | 0 | 274 | 68 | 21 | 14 |
| 00680 | CARBON, TOTAL ORGANIC (MG/L AS C) | 89 | 0 | 0 | 89 | 3 | 2 |
| 00681 | CARBON, DISSOLVED ORGANIC (MG/L AS C) | 89 | 0 | 0 | 89 | 3 | 2 |
| 00689 | CARBON, SUSPENDED ORGANIC (MG/L AS C) | 88 | 0 | 0 | 88 | 3 | 2 |
| 00720 | CYANIDE, TOTAL (MG/L AS CN) MG/L | 1 | 0 | 0 | 1 | 1 | 0 |
| 00745 | SULFIDE, TOTAL (MG/L AS S) | 3 | 0 | 3 | 0 | 3 | 0 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 1233 | 9 | 290 | 934 | 30 | 19 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 1128 | 0 | 224 | 904 | 14 | 10 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 1320 | 39 | 342 | 939 | 71 | 25 |
| 00916 | CALCIUM, TOTAL (MG/L AS Ca) | 132 | 0 | 0 | 132 | 4 | 2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 1352 | 39 | 374 | 939 | 102 | 28 |
| 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 132 | 0 | 0 | 132 | 4 | 2 |
| 00929 | SODIUM, TOTAL (MG/L AS NA) | 132 | 0 | 0 | 132 | 4 | 2 |

**Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Parameter Code | Name | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Stations | |
|-------------------|-----------------------------------------------|--------------|-------------------------|-------------------------|--------------------|----------|------|
| | | | | | | Total | Park |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 1287 | 39 | 327 | 921 | 54 | 18 |
| 00931 | SODIUM ADSORPTION RATIO | 1151 | 0 | 257 | 894 | 16 | 11 |
| 00932 | SODIUM, PERCENT | 929 | 0 | 257 | 672 | 6 | 2 |
| 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 35 | 0 | 16 | 19 | 3 | 1 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 1238 | 28 | 339 | 871 | 58 | 12 |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | 132 | 0 | 0 | 132 | 4 | 2 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 1391 | 28 | 301 | 1062 | 32 | 19 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 1397 | 28 | 301 | 1068 | 33 | 20 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 1203 | 28 | 298 | 877 | 18 | 10 |
| 00951 | FLUORIDE, TOTAL (MG/L AS F) | 153 | 9 | 14 | 130 | 6 | 4 |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 1225 | 39 | 297 | 889 | 20 | 11 |
| 00956 | SILICA, TOTAL (MG/L AS SI02) | 124 | 0 | 0 | 124 | 3 | 2 |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 31 | 17 | 0 | 14 | 4 | 0 |
| 01002 | ARSENIC, TOTAL (UG/L AS AS) | 18 | 0 | 16 | 2 | 5 | 0 |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 59 | 17 | 38 | 4 | 39 | 1 |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 57 | 11 | 38 | 8 | 38 | 1 |
| 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 16 | 0 | 16 | 0 | 4 | 0 |
| 01015 | BISMUTH, DISSOLVED (UG/L AS BI) | 3 | 0 | 0 | 3 | 1 | 0 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 871 | 10 | 51 | 810 | 50 | 9 |
| 01022 | BORON, TOTAL (UG/L AS B) | 17 | 0 | 16 | 1 | 5 | 0 |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 32 | 17 | 0 | 15 | 4 | 0 |
| 01027 | CADMIUM, TOTAL (UG/L AS CD) | 27 | 0 | 16 | 11 | 12 | 6 |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 116 | 19 | 84 | 13 | 85 | 13 |
| 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 2 | 0 | 0 | 2 | 2 | 0 |
| 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 17 | 0 | 16 | 1 | 5 | 0 |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | 99 | 11 | 84 | 4 | 85 | 13 |
| 01037 | COBALT, TOTAL (UG/L AS CO) | 16 | 0 | 16 | 0 | 4 | 0 |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 129 | 19 | 84 | 26 | 87 | 14 |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 250 | 0 | 16 | 234 | 22 | 14 |
| 01045 | IRON, TOTAL (UG/L AS FE) | 166 | 0 | 1 | 165 | 13 | 7 |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 312 | 17 | 154 | 141 | 94 | 15 |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 85 | 19 | 46 | 20 | 51 | 12 |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 19 | 0 | 16 | 3 | 6 | 0 |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | 232 | 0 | 1 | 231 | 16 | 14 |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 261 | 17 | 146 | 98 | 92 | 15 |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 114 | 10 | 84 | 20 | 86 | 14 |
| 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 17 | 0 | 16 | 1 | 5 | 0 |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 100 | 10 | 84 | 6 | 84 | 13 |
| 01067 | NICKEL, TOTAL (UG/L AS NI) | 17 | 0 | 17 | 0 | 4 | 0 |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 62 | 17 | 38 | 7 | 39 | 1 |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 52 | 11 | 38 | 3 | 38 | 1 |
| 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 16 | 0 | 16 | 0 | 4 | 0 |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 51 | 10 | 38 | 3 | 38 | 1 |
| 01087 | VANADIUM, TOTAL (UG/L AS V) | 16 | 0 | 16 | 0 | 4 | 0 |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 127 | 17 | 84 | 26 | 88 | 14 |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 241 | 0 | 16 | 225 | 22 | 14 |
| 01100 | TIN, DISSOLVED (UG/L AS SN) | 3 | 0 | 0 | 3 | 1 | 0 |
| 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 17 | 0 | 16 | 1 | 5 | 0 |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 49 | 8 | 38 | 3 | 38 | 1 |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 38 | 0 | 38 | 0 | 37 | 1 |
| 01120 | GALLIUM, DISSOLVED (UG/L AS GA) | 3 | 0 | 0 | 3 | 1 | 0 |
| 01125 | GERMANIUM, DISSOLVED (UG/L AS GE) | 3 | 0 | 0 | 3 | 1 | 0 |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 52 | 11 | 38 | 3 | 38 | 1 |
| 01132 | LITHIUM, TOTAL (UG/L AS LI) | 17 | 0 | 16 | 1 | 5 | 0 |
| 01135 | RUBIDIUM, DISSOLVED (UG/L AS RB) | 3 | 0 | 0 | 3 | 1 | 0 |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 38 | 0 | 38 | 0 | 37 | 1 |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 40 | 34 | 0 | 6 | 6 | 0 |
| 01147 | SELENIUM, TOTAL (UG/L AS SE) | 16 | 0 | 16 | 0 | 4 | 0 |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 87 | 0 | 84 | 3 | 84 | 13 |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 41 | 0 | 38 | 3 | 38 | 1 |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 38 | 0 | 38 | 0 | 37 | 1 |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 38 | 0 | 38 | 0 | 37 | 1 |
| 01501 | ALPHA, TOTAL | 9 | 0 | 9 | 0 | 2 | 0 |
| 01502 | ALPHA, TOTAL, COUNTING ERROR | 9 | 0 | 9 | 0 | 2 | 0 |
| 01503 | ALPHA, DISSOLVED | 26 | 0 | 0 | 26 | 2 | 1 |
| 01504 | ALPHA, DISSOLVED, COUNTING ERROR | 26 | 0 | 0 | 26 | 2 | 1 |
| 01505 | ALPHA, SUSPENDED | 26 | 0 | 0 | 26 | 2 | 1 |
| 01506 | ALPHA, SUSPENDED, COUNTING ERROR | 26 | 0 | 0 | 26 | 2 | 1 |
| 01507 | ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 21 | 0 | 0 | 21 | 2 | 1 |
| 01508 | ALPHA, GROSS IN SEDIMENT, COUNTING ERROR | 21 | 0 | 0 | 21 | 2 | 1 |
| 03501 | BETA, TOTAL | 9 | 0 | 9 | 0 | 2 | 0 |

**Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Parameter Code | Name | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Stations | |
|-------------------|----------------------------------------------------------|--------------|-------------------------|-------------------------|--------------------|----------|------|
| | | | | | | Total | Park |
| 03502 | BETA, TOTAL, COUNTING ERROR | 9 | 0 | 9 | 0 | 2 | 0 |
| 03503 | BETA, DISSOLVED | 30 | 0 | 0 | 30 | 2 | 1 |
| 03504 | BETA, DISSOLVED, COUNTING ERROR | 30 | 0 | 0 | 30 | 2 | 1 |
| 03505 | BETA, SUSPENDED | 29 | 0 | 0 | 29 | 2 | 1 |
| 03506 | BETA, SUSPENDED, COUNTING ERROR | 29 | 0 | 0 | 29 | 2 | 1 |
| 03507 | BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 23 | 0 | 0 | 23 | 2 | 1 |
| 03508 | BETA, GROSS IN SEDIMENT, COUNTING ERROR | 23 | 0 | 0 | 23 | 2 | 1 |
| 04024 | PROPACHLOR, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04028 | BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04029 | BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04035 | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04037 | PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04040 | DEETHYL ATRAZINE, DISSOLVED, WATER, TOT REC UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04041 | CYANAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 04091 | CLOPYRALID, TOTAL RECOVERABLE, WATER UG/L | 2 | 2 | 0 | 0 | 1 | 0 |
| 04095 | FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 09503 | RADIUM 226, DISSOLVED | 1 | 0 | 0 | 1 | 1 | 0 |
| 09505 | RADIUM 226, SUSPENDED | 1 | 0 | 0 | 1 | 1 | 0 |
| 22703 | URANIUM, NATURAL, DISSOLVED | 102 | 0 | 101 | 1 | 101 | 14 |
| 22705 | URANIUM, NATURAL, SUSPENDED | 1 | 0 | 0 | 1 | 1 | 0 |
| 31501 | COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 35C | 19 | 0 | 2 | 17 | 4 | 3 |
| 31505 | COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506) | 61 | 0 | 2 | 59 | 3 | 3 |
| 31506 | COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG. | 31 | 31 | 0 | 0 | 2 | 2 |
| 31613 | FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 40 | 22 | 18 | 0 | 3 | 2 |
| 31614 | FECAL COLIFORM, MPN, TUBE CONFIGURATION | 273 | 13 | 245 | 15 | 2 | 2 |
| 31615 | FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614) | 56 | 0 | 0 | 56 | 1 | 1 |
| 31616 | FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C | 64 | 0 | 47 | 17 | 5 | 3 |
| 31625 | FECAL COLIFORM, MF, M-FC, 0.7 UM | 166 | 49 | 117 | 0 | 3 | 0 |
| 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 38 | 0 | 38 | 0 | 9 | 9 |
| 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 21 | 0 | 21 | 0 | 7 | 7 |
| 32238 | CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 302 | 0 | 0 | 302 | 6 | 6 |
| 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 84 | 0 | 0 | 84 | 3 | 0 |
| 34253 | A-BHC-ALPHA DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 34609 | 2,4-DIMETHYLPHENOL DRY WGT BOTUG/KG | 6 | 0 | 6 | 0 | 2 | 0 |
| 34653 | P,P'-DDE DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38260 | METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.) | 8 | 0 | 0 | 8 | 2 | 1 |
| 38442 | DICAMBA (BANVEL) WATER, DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38478 | LINURON WATER, DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38482 | MCPA WATER, DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38487 | MCPB WATER, DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38501 | METHIOCARB WATER, DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38538 | PROPOXUR WATER, DISSUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38711 | BENTAZON WATER, DISUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38746 | 2,4-DB WATER, DISUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38811 | FLUOMETURON WATER, DISUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38866 | OXAMYL WATER, DISUG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 38933 | CHLORPYRIFOS, DISSOLVED UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 39034 | PERTHANE IN WHOLE WATER SAMPLE (UG/L) | 10 | 0 | 10 | 0 | 2 | 0 |
| 39250 | NAPHTHALENES, POLYCHLORINATED (UG/L) | 13 | 0 | 13 | 0 | 2 | 0 |
| 39251 | PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS) | 5 | 0 | 5 | 0 | 2 | 0 |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39331 | ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39332 | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39333 | ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39340 | GAMMA-BHC (LINDANE), WHOLE WATER, UG/L | 28 | 0 | 17 | 11 | 3 | 1 |
| 39341 | GAMMA-BHC (LINDANE), DISSOLVED, UG/L | 13 | 4 | 0 | 9 | 2 | 0 |
| 39342 | GAMMA-BHC (LINDANE), SUSPENDED, UG/L | 9 | 0 | 0 | 9 | 1 | 0 |
| 39343 | GAMMA-BHC (LINDANE), SEDIMENTS, DRY WGT, UG/KG | 24 | 0 | 18 | 6 | 2 | 0 |
| 39350 | CHLORDANE (TECH MIX & METABS), WHOLE WATER, UG/L | 26 | 0 | 17 | 9 | 2 | 0 |
| 39351 | CHLORDANE (TECH MIX & METABS), SEDIMENTS, DRY WGT, UG/KG | 24 | 0 | 18 | 6 | 2 | 0 |
| 39352 | CHLORDANE (TECH MIX & METABS), DISSOLVED, UG/L | 9 | 0 | 0 | 9 | 1 | 0 |
| 39353 | CHLORDANE (TECH MIX & METABS), SUSPENDED, UG/L | 9 | 0 | 0 | 9 | 1 | 0 |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39361 | DDD IN FILT. FRAC. OF WATER SAMP (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39362 | DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39363 | DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39366 | DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39367 | DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39368 | DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |

**Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Parameter Code | Name | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Stations | |
|-------------------|---------------------------------------------------|--------------|-------------------------|-------------------------|--------------------|----------|------|
| | | | | | | Total | Park |
| 39371 | DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39372 | DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39373 | DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39382 | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39383 | DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L) | 15 | 0 | 15 | 0 | 2 | 0 |
| 39389 | ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 6 | 0 | 6 | 0 | 2 | 0 |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39391 | ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39392 | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39393 | ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39398 | ETHION IN WHOLE WATER SAMPLE (UG/L) | 17 | 0 | 17 | 0 | 2 | 0 |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 17 | 0 | 17 | 0 | 2 | 0 |
| 39403 | TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 18 | 0 | 18 | 0 | 2 | 0 |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39411 | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39412 | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39413 | HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39415 | METOLACHLOR, WATER, DISSOLVED UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 | 1 |
| 39421 | HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39422 | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39423 | HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L) | 6 | 0 | 6 | 0 | 2 | 0 |
| 39481 | METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.) | 6 | 0 | 6 | 0 | 2 | 0 |
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 26 | 0 | 17 | 9 | 2 | 0 |
| 39517 | PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39518 | PCBS IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39519 | PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 24 | 0 | 18 | 6 | 2 | 0 |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 24 | 0 | 17 | 7 | 2 | 0 |
| 39532 | MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39533 | MALATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 7 | 0 | 0 | 7 | 1 | 0 |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 24 | 0 | 17 | 7 | 2 | 0 |
| 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39543 | PARATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 7 | 0 | 0 | 7 | 1 | 0 |
| 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 24 | 0 | 17 | 7 | 2 | 0 |
| 39572 | DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39573 | DIAZINON IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 7 | 0 | 0 | 7 | 1 | 0 |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 24 | 0 | 17 | 7 | 2 | 0 |
| 39602 | METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39603 | METHYL PARATHION IN SUSP. FRAC. WATER SAMP.(UG/L) | 7 | 0 | 0 | 7 | 1 | 0 |
| 39632 | ATRAZINE DISSOLVED IN WATER PPB | 4 | 4 | 0 | 0 | 2 | 0 |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE (UG/L) | 34 | 31 | 3 | 0 | 1 | 0 |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 62 | 31 | 20 | 11 | 3 | 1 |
| 39731 | 2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 12 | 0 | 12 | 0 | 2 | 0 |
| 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39733 | 2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 62 | 31 | 20 | 11 | 3 | 1 |
| 39741 | 2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 12 | 0 | 12 | 0 | 2 | 0 |
| 39742 | 2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39743 | 2,4,5-T IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39755 | MIREX, TOTAL (UG/L) | 10 | 0 | 10 | 0 | 2 | 0 |
| 39758 | MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS) | 6 | 0 | 6 | 0 | 2 | 0 |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 62 | 31 | 20 | 11 | 3 | 1 |
| 39761 | SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 12 | 0 | 12 | 0 | 2 | 0 |
| 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 | 0 |
| 39763 | SILVEX IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 | 0 |
| 39786 | TRITHION IN WHOLE WATER SAMPLE (UG/L) | 17 | 0 | 17 | 0 | 2 | 0 |
| 39790 | METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L) | 17 | 0 | 17 | 0 | 2 | 0 |
| 46342 | ALACHLOR (LASSO), WATER, DISSOLVED UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 46570 | HARDNESS, CA MG CALCULATED (MG/L AS CaCO3) | 1 | 0 | 0 | 1 | 1 | 0 |
| 49235 | TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49236 | PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49260 | ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49291 | PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49292 | ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49293 | NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49294 | NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49295 | NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |

**Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Parameter Code | Name | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Stations | |
|-------------------|---------------------------------------------------------|--------------|-------------------------|-------------------------|--------------------|----------|------|
| | | | | | | Total | Park |
| 49296 | METHOMYL, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49297 | FENURON, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49298 | ESFENVALERATE, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49299 | CRESOL, O-, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49300 | DIURON, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49301 | DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49302 | DICHLORPROP, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49303 | DICHOLOBENIL, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49304 | DACTHAL, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49305 | CLOPYRALID, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49306 | CHLOROTHALONIL, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49307 | AMIBEN, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49308 | HYDROXYCARBOFURAN, 3-, RECV, FILT, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49309 | CARBOFURAN, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49310 | CARBARYL, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49311 | BROMOXYNIL, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49312 | ALDICARB, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49313 | ALDICARB SULFONE, RECV, FILTERED, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49314 | ALDICARB SULFOXIDE, RECV, FILTERED, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 49315 | ACIFLUORFEN, RECV, FILTERED, WATER, GF, 0.7U UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 50580 | NIUBIUM, DISSOLVED UG/L | 38 | 0 | 38 | 0 | 37 | 1 |
| 70299 | SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L) | 11 | 0 | 0 | 11 | 2 | 0 |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 828 | 0 | 16 | 812 | 18 | 9 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 736 | 0 | 273 | 463 | 25 | 16 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 1161 | 0 | 254 | 907 | 4 | 1 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 1173 | 0 | 255 | 918 | 4 | 1 |
| 70326 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM | 15 | 0 | 0 | 15 | 1 | 0 |
| 70327 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM | 18 | 0 | 0 | 18 | 1 | 0 |
| 70328 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM | 19 | 0 | 0 | 19 | 1 | 0 |
| 70329 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM | 19 | 0 | 0 | 19 | 1 | 0 |
| 70330 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM | 18 | 0 | 0 | 18 | 1 | 0 |
| 70331 | SUSPENDED SED SIEVE DIAMETER, % FINER THAN .062MM | 199 | 3 | 52 | 144 | 6 | 2 |
| 70332 | SUSPENDED SED SIEVE DIAMETER, % FINER THAN .125MM | 122 | 0 | 2 | 120 | 2 | 0 |
| 70333 | SUSPENDED SED SIEVE DIAMETER, % FINER THAN .250MM | 117 | 0 | 0 | 117 | 2 | 0 |
| 70334 | SUSPENDED SED SIEVE DIAMETER, % FINER THAN .500MM | 98 | 0 | 0 | 98 | 2 | 0 |
| 70335 | SUSPENDED SED SIEVE DIAMETER, % FINER THAN 1.00MM | 4 | 0 | 0 | 4 | 2 | 0 |
| 70337 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 39 | 2 | 0 | 37 | 2 | 0 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 209 | 7 | 27 | 175 | 4 | 0 |
| 70339 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM | 36 | 7 | 3 | 26 | 1 | 0 |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 210 | 7 | 27 | 176 | 4 | 0 |
| 70341 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM | 29 | 2 | 0 | 27 | 1 | 0 |
| 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 125 | 3 | 25 | 97 | 4 | 0 |
| 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 116 | 3 | 22 | 91 | 4 | 0 |
| 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 107 | 3 | 20 | 84 | 4 | 0 |
| 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 68 | 2 | 11 | 55 | 4 | 0 |
| 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 8 | 0 | 2 | 6 | 3 | 0 |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 60 | 0 | 31 | 29 | 15 | 8 |
| 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH4) | 4 | 0 | 4 | 0 | 2 | 0 |
| 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 67 | 0 | 1 | 66 | 4 | 1 |
| 71850 | NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 117 | 0 | 0 | 117 | 2 | 0 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 819 | 0 | 55 | 764 | 15 | 11 |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 63 | 0 | 1 | 62 | 5 | 2 |
| 71870 | BROMIDE (MG/L AS BR) | 91 | 0 | 0 | 91 | 2 | 0 |
| 71885 | IRON (UG/L AS FE) | 229 | 0 | 0 | 229 | 4 | 1 |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 100 | 8 | 92 | 0 | 3 | 0 |
| 71887 | NITROGEN, TOTAL, AS NO3 - MG/L | 42 | 1 | 41 | 0 | 2 | 0 |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 22 | 17 | 0 | 5 | 2 | 0 |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 25 | 0 | 16 | 9 | 11 | 6 |
| 72000 | ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL) | 287 | 0 | 0 | 287 | 2 | 0 |
| 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 21 | 0 | 21 | 0 | 7 | 7 |
| 74010 | IRON, TOTAL (MG/L AS FE) | 204 | 0 | 0 | 204 | 9 | 8 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 506 | 90 | 170 | 246 | 7 | 2 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 298 | 1 | 149 | 148 | 4 | 0 |
| 80158 | BED MATERIAL FALL DIAMETER, % FINER THAN .062MM | 18 | 0 | 6 | 12 | 1 | 0 |
| 80159 | BED MATERIAL FALL DIAMETER, % FINER THAN .125MM | 18 | 0 | 6 | 12 | 1 | 0 |
| 80160 | BED MATERIAL FALL DIAMETER, % FINER THAN .250MM | 18 | 0 | 6 | 12 | 1 | 0 |
| 80161 | BED MATERIAL FALL DIAMETER, % FINER THAN .500MM | 18 | 0 | 6 | 12 | 1 | 0 |
| 80162 | BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM | 18 | 0 | 6 | 12 | 1 | 0 |
| 80169 | BED MATERIAL SIEVE DIAMETER, % FINER THAN 2.00MM | 17 | 0 | 5 | 12 | 1 | 0 |
| 80170 | BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.00MM | 17 | 0 | 5 | 12 | 1 | 0 |
| 80171 | BED MATERIAL SIEVE DIAMETER, % FINER THAN 8.00MM | 17 | 0 | 5 | 12 | 1 | 0 |

**Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Parameter Code | Name | Total Obs | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Stations | |
|-------------------|----------------------------------------------------|--------------|-------------------------|-------------------------|--------------------|----------|------|
| | | | | | | Total | Park |
| 80172 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM | 15 | 0 | 5 | 10 | 1 | 0 |
| 80173 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM | 11 | 0 | 3 | 8 | 1 | 0 |
| 80174 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM | 1 | 0 | 1 | 0 | 1 | 0 |
| 81886 | PERTHANE IN SEDIMENT DRY WEIGHT UG/KG | 6 | 0 | 6 | 0 | 2 | 0 |
| 82052 | BANVEL (DICAMBA) WHOLE WATER,UG/L | 34 | 31 | 3 | 0 | 1 | 0 |
| 82068 | POTASSIUM 40, DISSOLVED, K-40 PC/LITER | 20 | 0 | 20 | 0 | 2 | 1 |
| 82079 | TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 31 | 0 | 31 | 0 | 4 | 3 |
| 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 39 | 31 | 8 | 0 | 2 | 0 |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 38 | 0 | 38 | 0 | 37 | 1 |
| 82398 | SAMPLING METHOD (CODES) | 159 | 140 | 19 | 0 | 3 | 0 |
| 82630 | METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82660 | DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82661 | TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82663 | ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82664 | PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82665 | TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82666 | LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82667 | METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82668 | EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82669 | PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82670 | TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82671 | MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82672 | ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82673 | BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82674 | CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82675 | TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82676 | PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82677 | DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82678 | TRIALATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82679 | PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82680 | CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82681 | THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82682 | DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82683 | PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82684 | NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82685 | PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82686 | METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 82687 | PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L | 4 | 4 | 0 | 0 | 2 | 0 |
| 84000 | GEOLOGIC AGE CODE (SEE USGS CATALOG) | 3 | 2 | 1 | 0 | 3 | 2 |
| 84001 | AQUIFER NAME CODE (SEE USGS CATALOG) | 3 | 2 | 1 | 0 | 3 | 2 |
| 85334 | TEMPERATURE-DEG F, MINIMUM WATER | 430 | 430 | 0 | 0 | 1 | 1 |
| 85335 | TEMPERATURE- DEG F , MAXIMUM WATER | 429 | 429 | 0 | 0 | 1 | 1 |

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------|-------------------|-------|------|--------------------|
| BICA0006 | No | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0019 | No | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 11/30/71-11/30/71 | 0 | 1 | |
| BICA0029 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0034 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/21/75-10/17/75 | 0 | 7 | |
| BICA0036 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 12/16/68-10/26/70 | 1 | 10 | |
| BICA0039 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/05/68-09/08/70 | 2 | 179 | |
| BICA0049 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0065 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/70-10/20/72 | 2 | 231 | |
| BICA0066 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/05/68-09/08/70 | 2 | 395 | |
| BICA0069 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0070 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/70-10/20/72 | 2 | 302 | |
| BICA0072 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/70-10/20/72 | 2 | 348 | |
| BICA0075 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/05/68-09/08/70 | 2 | 583 | |
| BICA0084 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0087 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/70-10/20/72 | 2 | 458 | |
| BICA0099 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/05/68-09/08/70 | 2 | 780 | |
| BICA0113 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/21/70-10/22/72 | 2 | 511 | |
| BICA0128 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0132 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/05/68-09/08/70 | 2 | 933 | |
| BICA0136 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/21/70-10/20/72 | 2 | 440 | |
| BICA0140 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0143 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/21/70-10/20/72 | 2 | 500 | |
| BICA0172 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0174 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/05/68-09/08/70 | 2 | 1417 | |
| BICA0176 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 05/21/70-10/20/72 | 2 | 607 | |
| BICA0177 | Yes | 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0034 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/21/75-10/17/75 | 0 | 6 | |
| BICA0049 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/22/75-10/17/75 | 0 | 12 | |
| BICA0069 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0084 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0128 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0140 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0001 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/26/73-11/07/74 | 1 | 9 | |
| BICA0002 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 49 | 424 | |
| BICA0006 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/22/68-08/18/69 | 1 | 36 | |
| BICA0007 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0008 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0009 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0010 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/80-04/01/81 | 0 | 11 | |
| BICA0011 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0012 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0013 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/12/69-05/12/69 | 0 | 1 | |
| BICA0015 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/15/83-08/07/85 | 2 | 11 | |
| BICA0017 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0018 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0019 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 29 | 313 | |
| BICA0020 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0023 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/80-04/01/81 | 0 | 11 | |
| BICA0026 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/59-08/23/89 | 29 | 82 | |
| BICA0029 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/22/68-08/18/69 | 1 | 41 | |
| BICA0030 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0032 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0033 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0034 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/75-10/17/75 | 0 | 6 | |
| BICA0036 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12/16/68-12/16/68 | 0 | 3 | |
| BICA0037 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0038 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0039 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 0 | 45 | |
| BICA0040 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0041 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0043 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0044 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/13/70-02/13/70 | 0 | 1 | |
| BICA0048 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0049 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 0 | 12 | |
| BICA0050 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/80-11/26/80 | 0 | 9 | |
| BICA0054 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0055 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0058 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0059 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/22/70-06/10/77 | 6 | 16 | |
| BICA0060 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0064 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/26/88-07/26/88 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------------|-------------------|-------|-----|--------------------|
| BICA0065 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 2 | 231 | |
| BICA0066 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 0 | 159 | |
| BICA0067 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0069 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0070 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 2 | 302 | |
| BICA0071 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0072 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 2 | 348 | |
| BICA0074 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/09/80-11/26/80 | 0 | 8 | |
| BICA0075 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 0 | 249 | |
| BICA0076 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0084 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0085 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0087 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 2 | 458 | |
| BICA0088 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0099 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 0 | 337 | |
| BICA0101 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0113 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/22/72 | 2 | 511 | |
| BICA0114 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0115 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0116 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0120 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0121 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0123 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0125 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0127 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0128 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0130 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0132 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 0 | 410 | |
| BICA0133 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0134 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0135 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0136 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 2 | 440 | |
| BICA0137 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0141 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0143 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 2 | 500 | |
| BICA0144 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------------|-------------------|-------|------|--------------------|
| BICA0147 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0172 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0174 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-09/08/70 | 2 | 1286 | |
| BICA0176 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 2 | 607 | |
| BICA0177 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/22/68-08/11/69 | 1 | 38 | |
| BICA0179 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 28 | 258 | |
| BICA0181 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/11/77-06/07/77 | 0 | 3 | |
| BICA0183 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0184 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0185 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/01/76-07/06/77 | 1 | 6 | |
| BICA0187 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0190 | Yes | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0191 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0195 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0196 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12/20/73-04/20/83 | 9 | 9 | |
| BICA0201 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0207 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0210 | No | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0052 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/02/87-11/15/88 | 1 | 185 | |
| BICA0061 | No | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0062 | No | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0063 | No | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0073 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/02/87-05/15/91 | 4 | 72 | |
| BICA0077 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0079 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0080 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0083 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0152 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/21/69-06/16/69 | 0 | 2 | |
| BICA0170 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0182 | Yes | 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/06/68-09/02/68 | 0 | 3 | |
| BICA0002 | No | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 21 | 164 | |
| BICA0019 | No | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 22 | 142 | |
| BICA0026 | No | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 12/17/81-08/23/89 | 7 | 42 | |
| BICA0065 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/17/70-11/04/70 | 0 | 5 | |
| BICA0070 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 09/16/70-11/12/71 | 1 | 5 | |
| BICA0072 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 09/16/70-11/12/71 | 1 | 4 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0087 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 09/16/70-05/16/72 | 1 | 5 | |
| BICA0113 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 05/21/70-09/08/71 | 1 | 9 | |
| BICA0136 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/18/70-09/28/70 | 0 | 2 | |
| BICA0143 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/18/70-05/16/72 | 1 | 4 | |
| BICA0176 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 2 | 22 | |
| BICA0180 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 27 | 120 | |
| BICA0184 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0190 | Yes | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0195 | No | 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0002 | No | 00025 | BAROMETRIC PRESSURE (MM OF HG) | 02/16/84-04/14/97 | 13 | 31 | |
| BICA0019 | No | 00025 | BAROMETRIC PRESSURE (MM OF HG) | 03/27/96-04/14/97 | 1 | 3 | |
| BICA0026 | No | 00025 | BAROMETRIC PRESSURE (MM OF HG) | 10/04/82-08/23/89 | 6 | 36 | |
| BICA0002 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 10/07/81-04/14/97 | 15 | 153 | |
| BICA0019 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 10/07/81-04/14/97 | 15 | 129 | |
| BICA0026 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 12/17/81-08/23/89 | 7 | 43 | |
| BICA0064 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0148 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0149 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0164 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0178 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0180 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 01/01/68-09/03/96 | 28 | 124 | |
| BICA0181 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0184 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0186 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0190 | Yes | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0195 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0199 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 12/20/73-04/20/83 | 9 | 9 | |
| BICA0207 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0210 | No | 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0002 | No | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 10/25/78-04/14/97 | 18 | 171 | |
| BICA0019 | No | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 07/23/78-04/14/97 | 18 | 164 | |
| BICA0026 | No | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 10/25/78-08/23/89 | 10 | 52 | |
| BICA0064 | No | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0180 | Yes | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 01/01/68-09/03/96 | 28 | 157 | |
| BICA0184 | Yes | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0190 | Yes | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0195 | No | 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0180 | Yes | 00041 | WEATHER (WMO CODE 4501) | 10/18/79-08/25/81 | 1 | 22 | |
| BICA0002 | No | 00042 | ALTITUDE IN FEET ABOVE MEAN SEA LEVEL | 01/01/01-01/01/01 | 0 | 1 | |
| BICA0002 | No | 00049 | SURFACE AREA IN SQUARE MILES | 10/01/49-09/22/61 | 11 | 218 | |
| BICA0026 | No | 00049 | SURFACE AREA IN SQUARE MILES | 08/20/58-09/09/62 | 4 | 69 | |
| BICA0061 | No | 00058 | FLOW, RATE GALLONS/MIN | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0062 | No | 00058 | FLOW, RATE GALLONS/MIN | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0063 | No | 00058 | FLOW, RATE GALLONS/MIN | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0077 | Yes | 00058 | FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0079 | Yes | 00058 | FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0080 | Yes | 00058 | FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0083 | Yes | 00058 | FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 0 | 1 | |
| BICA0002 | No | 00060 | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 32 | 490 | T,A,S |
| BICA0019 | No | 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 12 | 211 | |
| BICA0026 | No | 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 8 | 173 | |
| BICA0059 | No | 00060 | FLOW, STREAM, MEAN DAILY CFS | 07/22/70-09/08/73 | 3 | 9 | |
| BICA0180 | Yes | 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 7 | 176 | |
| BICA0001 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 04/17/73-09/20/73 | 0 | 3 | |
| BICA0002 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 47 | 417 | |
| BICA0019 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 23 | 272 | |
| BICA0021 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 02/05/75-12/16/75 | 0 | 14 | |
| BICA0022 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 02/03/75-02/05/76 | 1 | 6 | |
| BICA0026 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 31 | 113 | |
| BICA0059 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 07/20/74-06/10/77 | 2 | 8 | |
| BICA0139 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0180 | Yes | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 22 | 214 | |
| BICA0181 | Yes | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 07/01/76-07/06/77 | 1 | 6 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0184 | Yes | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0186 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0190 | Yes | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0195 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0199 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 12/20/73-04/20/83 | 9 | 8 | |
| BICA0208 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0002 | No | 00063 | SAMPLING POINTS, NUMBER OF IN A CROSS SECTION | 09/29/70-03/08/77 | 6 | 15 | |
| BICA0180 | Yes | 00065 | STAGE, STREAM (FEET) | 10/10/90-09/03/96 | 5 | 52 | |
| BICA0002 | No | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 6 | 78 | |
| BICA0006 | No | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 02/22/68-08/18/69 | 1 | 39 | |
| BICA0019 | No | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 11/12/78-09/02/80 | 1 | 19 | |
| BICA0029 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 02/22/68-08/18/69 | 1 | 44 | |
| BICA0039 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 1 | 12 | |
| BICA0066 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 1 | 33 | |
| BICA0075 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 1 | 53 | |
| BICA0099 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 1 | 74 | |
| BICA0132 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 1 | 90 | |
| BICA0174 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 1 | 142 | |
| BICA0177 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 02/22/68-08/18/69 | 1 | 44 | |
| BICA0180 | Yes | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 07/23/69-06/02/70 | 0 | 7 | |
| BICA0199 | No | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 04/20/83-04/20/83 | 0 | 1 | |
| BICA0209 | No | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 04/20/83-04/20/83 | 0 | 1 | |
| BICA0034 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/21/75-10/17/75 | 0 | 6 | |
| BICA0039 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 1 | 90 | |
| BICA0049 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 0 | 12 | |
| BICA0066 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 1 | 221 | |
| BICA0069 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0075 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 1 | 332 | |
| BICA0084 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0099 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 1 | 473 | |
| BICA0128 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0132 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 1 | 543 | |
| BICA0140 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0174 | Yes | 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 1 | 766 | |
| BICA0002 | No | 00075 | TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE) | 11/19/69-06/30/70 | 0 | 3 | |
| BICA0002 | No | 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 09/04/80-12/17/80 | 0 | 3 | |
| BICA0019 | No | 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 10/07/80-12/17/81 | 1 | 14 | |
| BICA0020 | No | 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 06/09/76-04/19/78 | 1 | 8 | |
| BICA0026 | No | 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 02/10/82-09/08/83 | 1 | 16 | |
| BICA0034 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 08/29/75-10/17/75 | 0 | 2 | |
| BICA0049 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0069 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0084 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0128 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0140 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0172 | Yes | 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0031 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 08/29/75-10/17/75 | 0 | 2 | |
| BICA0042 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0050 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 06/09/80-11/26/80 | 0 | 9 | |
| BICA0068 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0074 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 07/09/80-11/26/80 | 0 | 8 | |
| BICA0100 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0129 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0142 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0173 | Yes | 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0002 | No | 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 13 | 146 | |
| BICA0019 | No | 00080 | COLOR (PLATINUM-COBALT UNITS) | 10/01/66-08/11/67 | 0 | 23 | |
| BICA0026 | No | 00080 | COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 7 | 112 | |
| BICA0152 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0153 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0165 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0169 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0180 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 10/01/66-12/01/70 | 4 | 66 | |
| BICA0182 | Yes | 00080 | COLOR (PLATINUM-COBALT UNITS) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0006 | No | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 02/22/68-08/18/69 | 1 | 38 | |
| BICA0029 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 02/22/68-08/18/69 | 1 | 42 | |
| BICA0034 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/21/75-10/17/75 | 0 | 6 | |
| BICA0039 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 0 | 45 | |
| BICA0049 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 0 | 12 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------------------|-------------------|-------|------|--------------------|
| BICA0066 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 0 | 158 | |
| BICA0069 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0075 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 0 | 247 | |
| BICA0084 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0099 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 0 | 336 | |
| BICA0128 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0132 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 0 | 408 | |
| BICA0139 | No | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0174 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-09/08/70 | 2 | 1260 | |
| BICA0177 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0181 | Yes | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 07/01/76-07/06/77 | 1 | 5 | |
| BICA0186 | No | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0199 | No | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 08/31/76-07/06/77 | 0 | 5 | |
| BICA0209 | No | 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 06/30/76-07/14/77 | 1 | 7 | |
| BICA0002 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 50 | 664 | T,A,S |
| BICA0007 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0008 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0009 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0010 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/80-11/26/80 | 0 | 8 | |
| BICA0011 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0012 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0017 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0018 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0019 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 30 | 381 | T,A,S |
| BICA0020 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/76-04/19/78 | 1 | 8 | |
| BICA0023 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/80-11/26/80 | 0 | 8 | |
| BICA0024 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 09/17/76-09/17/76 | 0 | 1 | |
| BICA0026 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 31 | 206 | T,S |
| BICA0028 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0030 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0033 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0037 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0038 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0040 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0041 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0043 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0048 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0050 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/80-11/26/80 | 0 | 7 | |
| BICA0054 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0057 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/56-07/15/56 | 0 | 1 | |
| BICA0058 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0060 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0061 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/27/57-05/14/70 | 12 | 2 | |
| BICA0062 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0063 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/14/70-05/14/70 | 0 | 1 | |
| BICA0064 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0074 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/09/80-11/26/80 | 0 | 6 | |
| BICA0076 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------------|-------------------|-------|-----|--------------------|
| BICA0106 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0115 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0116 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0120 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0125 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0127 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0130 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0134 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0135 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0138 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0141 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0152 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0154 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0158 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0160 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0162 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0163 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0165 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0166 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0171 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 29 | 341 | A,S |
| BICA0182 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0183 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0184 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0185 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0187 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0190 | Yes | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0191 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0195 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0196 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/20/73-04/20/83 | 9 | 8 | |
| BICA0200 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0206 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0207 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0174 | Yes | 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L | 05/05/68-11/02/68 | 0 | 91 | |
| BICA0001 | No | 00300 | OXYGEN, DISSOLVED MG/L | 02/26/73-12/11/74 | 1 | 11 | |
| BICA0002 | No | 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 27 | 122 | T,S |
| BICA0013 | No | 00300 | OXYGEN, DISSOLVED MG/L | 05/12/69-05/12/69 | 0 | 1 | |
| BICA0019 | No | 00300 | OXYGEN, DISSOLVED MG/L | 11/12/78-04/14/97 | 18 | 38 | |
| BICA0020 | No | 00300 | OXYGEN, DISSOLVED MG/L | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0026 | No | 00300 | OXYGEN, DISSOLVED MG/L | 02/10/82-08/23/89 | 7 | 42 | |
| BICA0034 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/21/75-10/17/75 | 0 | 6 | |
| BICA0036 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 12/16/68-04/15/69 | 0 | 4 | |
| BICA0044 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 02/13/70-02/13/70 | 0 | 1 | |
| BICA0049 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 0 | 12 | |
| BICA0061 | No | 00300 | OXYGEN, DISSOLVED MG/L | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0065 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-12/02/70 | 0 | 24 | |
| BICA0069 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0070 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-11/04/70 | 0 | 21 | |
| BICA0072 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-11/04/70 | 0 | 28 | |
| BICA0084 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0087 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-11/04/70 | 0 | 29 | |
| BICA0113 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/21/70-12/02/70 | 0 | 34 | |
| BICA0128 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0136 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/21/70-11/03/70 | 0 | 30 | |
| BICA0139 | No | 00300 | OXYGEN, DISSOLVED MG/L | 07/01/76-07/06/77 | 1 | 6 | |
| BICA0140 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0143 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 06/18/70-11/03/70 | 0 | 23 | |
| BICA0172 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0176 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 05/21/70-12/02/70 | 0 | 37 | |
| BICA0180 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 07/23/69-04/20/70 | 0 | 6 | |
| BICA0181 | Yes | 00300 | OXYGEN, DISSOLVED MG/L | 07/01/76-07/06/77 | 1 | 5 | |
| BICA0186 | No | 00300 | OXYGEN, DISSOLVED MG/L | 07/01/76-07/06/77 | 1 | 6 | |
| BICA0199 | No | 00300 | OXYGEN, DISSOLVED MG/L | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 00300 | OXYGEN, DISSOLVED MG/L | 06/30/76-07/14/77 | 1 | 7 | |
| BICA0026 | No | 00301 | OXYGEN, DISSOLVED, PERCENT OF SATURATION % | 10/04/82-06/06/83 | 0 | 7 | |
| BICA0002 | No | 00310 | BOD, 5 DAY, 20 DEG C MG/L | 11/19/69-10/31/73 | 3 | 6 | |
| BICA0005 | No | 00310 | BOD, 5 DAY, 20 DEG C MG/L | 09/18/75-09/18/75 | 0 | 1 | |
| BICA0180 | Yes | 00310 | BOD, 5 DAY, 20 DEG C MG/L | 07/23/69-06/02/70 | 0 | 7 | |
| BICA0001 | No | 00400 | PH (STANDARD UNITS) | 02/26/73-12/11/74 | 1 | 11 | |
| BICA0002 | No | 00400 | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 50 | 514 | T,A,S |
| BICA0007 | No | 00400 | PH (STANDARD UNITS) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0008 | Yes | 00400 | PH (STANDARD UNITS) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0009 | No | 00400 | PH (STANDARD UNITS) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0010 | Yes | 00400 | PH (STANDARD UNITS) | 06/09/80-04/01/81 | 0 | 10 | |
| BICA0011 | No | 00400 | PH (STANDARD UNITS) | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0012 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0013 | No | 00400 | PH (STANDARD UNITS) | 05/12/69-05/12/69 | 0 | 1 | |
| BICA0015 | No | 00400 | PH (STANDARD UNITS) | 02/15/83-08/07/85 | 2 | 10 | |
| BICA0017 | No | 00400 | PH (STANDARD UNITS) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0018 | No | 00400 | PH (STANDARD UNITS) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0019 | No | 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 30 | 234 | T,S |
| BICA0020 | No | 00400 | PH (STANDARD UNITS) | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0023 | No | 00400 | PH (STANDARD UNITS) | 06/09/80-04/01/81 | 0 | 10 | |
| BICA0026 | No | 00400 | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 31 | 206 | T,S |
| BICA0030 | No | 00400 | PH (STANDARD UNITS) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0032 | Yes | 00400 | PH (STANDARD UNITS) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0033 | No | 00400 | PH (STANDARD UNITS) | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0034 | Yes | 00400 | PH (STANDARD UNITS) | 05/21/75-10/17/75 | 0 | 6 | |
| BICA0036 | Yes | 00400 | PH (STANDARD UNITS) | 12/16/68-10/26/70 | 1 | 10 | |
| BICA0037 | No | 00400 | PH (STANDARD UNITS) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0038 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0040 | No | 00400 | PH (STANDARD UNITS) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0041 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0043 | No | 00400 | PH (STANDARD UNITS) | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0048 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0049 | Yes | 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 0 | 12 | |
| BICA0050 | Yes | 00400 | PH (STANDARD UNITS) | 06/09/80-11/26/80 | 0 | 8 | |
| BICA0054 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0055 | Yes | 00400 | PH (STANDARD UNITS) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0058 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------|-------------------|-------|-----|--------------------|
| BICA0060 | No | 00400 | PH (STANDARD UNITS) | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0061 | No | 00400 | PH (STANDARD UNITS) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0064 | No | 00400 | PH (STANDARD UNITS) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0069 | Yes | 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0071 | Yes | 00400 | PH (STANDARD UNITS) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0074 | Yes | 00400 | PH (STANDARD UNITS) | 07/09/80-11/26/80 | 0 | 7 | |
| BICA0076 | Yes | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0084 | Yes | 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0085 | Yes | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 00400 | PH (STANDARD UNITS) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 00400 | PH (STANDARD UNITS) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 00400 | PH (STANDARD UNITS) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 00400 | PH (STANDARD UNITS) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 00400 | PH (STANDARD UNITS) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 00400 | PH (STANDARD UNITS) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 00400 | PH (STANDARD UNITS) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 00400 | PH (STANDARD UNITS) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 00400 | PH (STANDARD UNITS) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 00400 | PH (STANDARD UNITS) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 00400 | PH (STANDARD UNITS) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 00400 | PH (STANDARD UNITS) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 00400 | PH (STANDARD UNITS) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 00400 | PH (STANDARD UNITS) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0128 | Yes | 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0130 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 00400 | PH (STANDARD UNITS) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 00400 | PH (STANDARD UNITS) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00400 | PH (STANDARD UNITS) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0141 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 00400 | PH (STANDARD UNITS) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0148 | No | 00400 | PH (STANDARD UNITS) | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0149 | No | 00400 | PH (STANDARD UNITS) | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0150 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0152 | Yes | 00400 | PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00400 | PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0154 | Yes | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0158 | Yes | 00400 | PH (STANDARD UNITS) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00400 | PH (STANDARD UNITS) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0160 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0161 | Yes | 00400 | PH (STANDARD UNITS) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0162 | Yes | 00400 | PH (STANDARD UNITS) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0163 | Yes | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0164 | No | 00400 | PH (STANDARD UNITS) | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0165 | Yes | 00400 | PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0166 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00400 | PH (STANDARD UNITS) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00400 | PH (STANDARD UNITS) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 00400 | PH (STANDARD UNITS) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00400 | PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0171 | No | 00400 | PH (STANDARD UNITS) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0172 | Yes | 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0179 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 13 | 162 | |
| BICA0181 | Yes | 00400 | PH (STANDARD UNITS) | 07/01/76-07/06/77 | 1 | 5 | |
| BICA0182 | Yes | 00400 | PH (STANDARD UNITS) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0183 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 00400 | PH (STANDARD UNITS) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0187 | No | 00400 | PH (STANDARD UNITS) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00400 | PH (STANDARD UNITS) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 00400 | PH (STANDARD UNITS) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 00400 | PH (STANDARD UNITS) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00400 | PH (STANDARD UNITS) | 08/31/76-04/20/83 | 6 | 6 | |
| BICA0200 | No | 00400 | PH (STANDARD UNITS) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00400 | PH (STANDARD UNITS) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 00400 | PH (STANDARD UNITS) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0209 | No | 00400 | PH (STANDARD UNITS) | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0002 | No | 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 10 | 70 | |
| BICA0006 | No | 00403 | PH, LAB, STANDARD UNITS SU | 02/22/68-08/18/69 | 1 | 38 | |
| BICA0019 | No | 00403 | PH, LAB, STANDARD UNITS SU | 10/07/80-07/09/87 | 6 | 37 | |
| BICA0029 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 02/22/68-08/18/69 | 1 | 43 | |
| BICA0064 | No | 00403 | PH, LAB, STANDARD UNITS SU | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0123 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00403 | PH, LAB, STANDARD UNITS SU | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0177 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0180 | Yes | 00403 | PH, LAB, STANDARD UNITS SU | 10/28/80-08/25/81 | 0 | 12 | |
| BICA0186 | No | 00403 | PH, LAB, STANDARD UNITS SU | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 00403 | PH, LAB, STANDARD UNITS SU | 12/20/73-04/20/83 | 9 | 8 | |
| BICA0207 | No | 00403 | PH, LAB, STANDARD UNITS SU | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 00403 | PH, LAB, STANDARD UNITS SU | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 00403 | PH, LAB, STANDARD UNITS SU | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00403 | PH, LAB, STANDARD UNITS SU | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0002 | No | 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 9 | 78 | |
| BICA0019 | No | 00405 | CARBON DIOXIDE (MG/L AS CO2) | 04/15/72-08/23/79 | 7 | 42 | |
| BICA0036 | Yes | 00405 | CARBON DIOXIDE (MG/L AS CO2) | 12/16/68-07/12/69 | 0 | 8 | |
| BICA0180 | Yes | 00405 | CARBON DIOXIDE (MG/L AS CO2) | 09/01/72-09/20/78 | 6 | 41 | |
| BICA0006 | No | 00406 | PH, FIELD, STANDARD UNITS SU | 02/22/68-08/11/69 | 1 | 34 | |
| BICA0029 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 02/22/68-08/11/69 | 1 | 38 | |
| BICA0039 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 2 | 51 | |
| BICA0066 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 2 | 48 | |
| BICA0075 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 2 | 53 | |
| BICA0099 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 2 | 53 | |
| BICA0132 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 2 | 51 | |
| BICA0174 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 2 | 141 | |
| BICA0177 | Yes | 00406 | PH, FIELD, STANDARD UNITS SU | 02/22/68-08/11/69 | 1 | 33 | |
| BICA0002 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 33 | 330 | T,A,S |
| BICA0010 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 06/09/80-10/16/80 | 0 | 6 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|------------------------------------|-------------------|-------|-----|--------------------|
| BICA0019 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 10/01/66-09/02/80 | 13 | 253 | |
| BICA0023 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 06/09/80-10/16/80 | 0 | 7 | |
| BICA0026 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 10/01/65-09/16/68 | 2 | 63 | |
| BICA0034 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/21/75-10/17/75 | 0 | 7 | |
| BICA0049 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0050 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 06/09/80-07/23/80 | 0 | 3 | |
| BICA0067 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0069 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0074 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 07/09/80-07/23/80 | 0 | 2 | |
| BICA0084 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0115 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0128 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0134 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0152 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0172 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0180 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 10/01/66-09/16/80 | 13 | 208 | |
| BICA0181 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 07/01/76-07/01/76 | 0 | 1 | |
| BICA0182 | Yes | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0199 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 03/31/74-04/20/83 | 9 | 8 | |
| BICA0207 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0210 | No | 00410 | ALKALINITY, TOTAL (MG/L AS CACO3) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0001 | No | 00411 | ALKALINITY,METHYLORANGE MG/L | 02/26/73-12/11/74 | 1 | 11 | |
| BICA0013 | No | 00411 | ALKALINITY,METHYLORANGE MG/L | 05/12/69-05/12/69 | 0 | 1 | |
| BICA0036 | Yes | 00411 | ALKALINITY,METHYLORANGE MG/L | 12/16/68-10/26/70 | 1 | 10 | |
| BICA0044 | Yes | 00411 | ALKALINITY,METHYLORANGE MG/L | 02/13/70-02/13/70 | 0 | 1 | |
| BICA0057 | Yes | 00411 | ALKALINITY,METHYLORANGE MG/L | 07/15/56-07/15/56 | 0 | 1 | |
| BICA0001 | No | 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 02/26/73-12/11/74 | 1 | 11 | |
| BICA0013 | No | 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 05/12/69-05/12/69 | 0 | 1 | |
| BICA0036 | Yes | 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 12/16/68-10/26/70 | 1 | 10 | |
| BICA0044 | Yes | 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 02/13/70-02/13/70 | 0 | 1 | |
| BICA0002 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 34 | 481 | T,A,S |
| BICA0006 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0019 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 12 | 243 | |
| BICA0026 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0029 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0061 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0067 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0177 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0180 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 11 | 181 | |
| BICA0182 | Yes | 00440 | BICARBONATE ION (MG/L AS HCO3) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 03/31/74-07/06/77 | 3 | 6 | |
| BICA0207 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 01/12/77-04/20/83 | 6 | 5 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0210 | No | 00440 | BICARBONATE ION (MG/L AS HCO3) | 09/16/76-09/16/76 | 0 | 1 | T,A,S |
| BICA0002 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 31 | 406 | |
| BICA0019 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 12 | 199 | |
| BICA0026 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 8 | 149 | |
| BICA0067 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 8 | 128 | |
| BICA0182 | Yes | 00445 | CARBONATE ION (MG/L AS CO3) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 01/11/77-07/06/77 | 0 | 4 | T,A,S |
| BICA0199 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 03/31/74-07/06/77 | 3 | 6 | |
| BICA0207 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00445 | CARBONATE ION (MG/L AS CO3) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0020 | No | 00515 | RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0020 | No | 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0139 | No | 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/09/76-07/06/77 | 0 | 5 | |
| BICA0181 | Yes | 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/09/76-07/06/77 | 0 | 5 | |
| BICA0186 | No | 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/09/76-07/06/77 | 0 | 5 | |
| BICA0199 | No | 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0209 | No | 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/11/76-04/20/83 | 6 | 6 | |
| BICA0002 | No | 00600 | NITROGEN, TOTAL (MG/L AS N) | 11/20/80-08/13/85 | 4 | 26 | |
| BICA0006 | No | 00600 | NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/11/69 | 1 | 39 | |
| BICA0026 | No | 00600 | NITROGEN, TOTAL (MG/L AS N) | 12/02/80-03/21/83 | 2 | 16 | |
| BICA0029 | Yes | 00600 | NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/11/69 | 1 | 42 | |
| BICA0177 | Yes | 00600 | NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/11/69 | 1 | 44 | |
| BICA0006 | No | 00602 | NITROGEN, DISSOLVED (MG/L AS N) | 02/22/68-08/11/69 | 1 | 30 | T,A,S |
| BICA0029 | Yes | 00602 | NITROGEN, DISSOLVED (MG/L AS N) | 02/22/68-08/11/69 | 1 | 35 | |
| BICA0177 | Yes | 00602 | NITROGEN, DISSOLVED (MG/L AS N) | 02/22/68-08/11/69 | 1 | 36 | |
| BICA0002 | No | 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 11/20/80-08/13/85 | 4 | 22 | |
| BICA0026 | No | 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 12/02/80-03/21/83 | 2 | 15 | |
| BICA0180 | Yes | 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 09/11/69-09/11/69 | 0 | 1 | |
| BICA0002 | No | 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 03/03/70-06/23/81 | 11 | 3 | |
| BICA0180 | Yes | 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 07/23/69-06/02/70 | 0 | 7 | |
| BICA0002 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/20/80-07/28/89 | 8 | 58 | |
| BICA0004 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 10/05/74-09/10/75 | 0 | 11 | |
| BICA0006 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 38 | |
| BICA0010 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/09/80-10/16/80 | 0 | 6 | |
| BICA0015 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/15/83-02/15/83 | 0 | 1 | |
| BICA0019 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/29/87-06/30/87 | 0 | 2 | |
| BICA0021 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/05/75-12/16/75 | 0 | 14 | |
| BICA0022 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/03/75-01/14/76 | 0 | 6 | |
| BICA0023 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/09/80-10/16/80 | 0 | 7 | |
| BICA0025 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 10/05/74-09/10/75 | 0 | 13 | |
| BICA0026 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 12/02/80-08/23/89 | 8 | 45 | T,A,S |
| BICA0029 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 43 | |
| BICA0034 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/21/75-10/17/75 | 0 | 7 | |
| BICA0039 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0049 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0050 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0056 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/10/74-09/10/75 | 0 | 14 | |
| BICA0066 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0069 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0074 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/09/80-08/06/80 | 0 | 3 | |
| BICA0075 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0084 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0099 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 54 | |
| BICA0124 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/02/74-08/02/75 | 0 | 5 | |
| BICA0128 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0132 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 54 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------------|-------------------|-------|-----|--------------------|
| BICA0139 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0174 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 54 | |
| BICA0175 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 10/05/74-08/02/75 | 0 | 8 | |
| BICA0177 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 41 | |
| BICA0181 | Yes | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/01/76-07/01/76 | 0 | 1 | |
| BICA0186 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0199 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 08/31/76-04/20/83 | 6 | 6 | |
| BICA0209 | No | 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0019 | No | 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | 04/20/81-04/20/81 | 0 | 1 | |
| BICA0180 | Yes | 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | 07/23/69-06/02/70 | 0 | 7 | |
| BICA0002 | No | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/08/82-02/08/82 | 0 | 1 | |
| BICA0004 | No | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 0 | 1 | |
| BICA0006 | No | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 38 | |
| BICA0025 | No | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 0 | 1 | |
| BICA0026 | No | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/10/82-02/10/82 | 0 | 1 | |
| BICA0029 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 43 | |
| BICA0039 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0066 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0075 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0099 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 54 | |
| BICA0124 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 11/02/74-11/02/74 | 0 | 1 | |
| BICA0132 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0174 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0175 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 0 | 1 | |
| BICA0177 | Yes | 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 41 | |
| BICA0002 | No | 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 7 | 85 | |
| BICA0019 | No | 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 04/15/72-04/15/72 | 0 | 1 | |
| BICA0180 | Yes | 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 05/01/69-12/01/70 | 1 | 35 | |
| BICA0003 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0004 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 0 | 1 | |
| BICA0006 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 39 | |
| BICA0010 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0020 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/76-08/17/77 | 1 | 6 | |
| BICA0023 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0025 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-11/10/74 | 0 | 2 | |
| BICA0029 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 44 | |
| BICA0039 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 56 | |
| BICA0050 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0056 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 11/10/74-11/10/74 | 0 | 1 | |
| BICA0066 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 56 | |
| BICA0067 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0074 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/09/80-08/06/80 | 0 | 3 | |
| BICA0075 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 56 | |
| BICA0099 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 55 | |
| BICA0115 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0124 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 11/02/74-11/02/74 | 0 | 1 | |
| BICA0127 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0132 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 56 | |
| BICA0134 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0174 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 2 | 143 | |
| BICA0175 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 0 | 1 | |
| BICA0177 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 1 | 42 | |
| BICA0181 | Yes | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/01/76-07/01/76 | 0 | 1 | |
| BICA0186 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0199 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 03/31/74-07/06/77 | 3 | 7 | |
| BICA0207 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/30/76-07/14/77 | 1 | 7 | |
| BICA0002 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/20/80-07/28/89 | 8 | 59 | |
| BICA0004 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 10/05/74-09/10/75 | 0 | 10 | |
| BICA0019 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/29/87-06/30/87 | 0 | 2 | |
| BICA0021 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 02/05/75-12/16/75 | 0 | 14 | |
| BICA0022 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 02/03/75-02/05/76 | 1 | 7 | |
| BICA0025 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 10/05/74-09/10/75 | 0 | 13 | |
| BICA0026 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 12/02/80-08/23/89 | 8 | 45 | |
| BICA0034 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/21/75-10/17/75 | 0 | 7 | |
| BICA0049 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0056 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/10/74-09/10/75 | 0 | 13 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0069 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0084 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0124 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/02/74-08/02/75 | 0 | 4 | |
| BICA0128 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0139 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0175 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 10/05/74-08/02/75 | 0 | 8 | |
| BICA0181 | Yes | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 07/01/76-07/01/76 | 0 | 1 | |
| BICA0186 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0199 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 08/31/76-07/06/77 | 0 | 5 | |
| BICA0209 | No | 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 06/30/76-07/14/77 | 1 | 7 | |
| BICA0002 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/20/80-07/28/89 | 8 | 58 | |
| BICA0004 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 10/05/74-09/10/75 | 0 | 11 | |
| BICA0015 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 02/15/83-08/07/85 | 2 | 11 | |
| BICA0019 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/29/87-06/30/87 | 0 | 2 | |
| BICA0020 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/09/77-04/19/78 | 0 | 2 | |
| BICA0021 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 02/05/75-12/16/75 | 0 | 14 | |
| BICA0022 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 02/03/75-02/05/76 | 1 | 7 | |
| BICA0025 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 10/05/74-09/10/75 | 0 | 13 | |
| BICA0026 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 12/02/80-08/23/89 | 8 | 45 | |
| BICA0032 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0034 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/21/75-10/17/75 | 0 | 7 | |
| BICA0049 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0055 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0056 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/10/74-09/10/75 | 0 | 14 | |
| BICA0069 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0084 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0124 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/02/74-08/02/75 | 0 | 5 | |
| BICA0128 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0140 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0175 | Yes | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 10/05/74-08/02/75 | 0 | 8 | |
| BICA0199 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 04/20/83-04/20/83 | 0 | 1 | |
| BICA0209 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 04/20/83-04/20/83 | 0 | 1 | |
| BICA0210 | No | 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0002 | No | 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 6 | 70 | |
| BICA0019 | No | 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 16 | 145 | |
| BICA0064 | No | 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0180 | Yes | 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 10 | 149 | |
| BICA0006 | No | 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0019 | No | 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 04/18/79-06/13/79 | 0 | 2 | |
| BICA0029 | Yes | 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 02/22/68-08/18/69 | 1 | 44 | |
| BICA0177 | Yes | 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0001 | No | 00653 | PHOSPHATE, TOTAL SOLUBLE (MG/L) | 12/05/73-12/11/74 | 1 | 5 | |
| BICA0006 | No | 00653 | PHOSPHATE, TOTAL SOLUBLE (MG/L) | 02/22/68-08/18/69 | 1 | 33 | |
| BICA0029 | Yes | 00653 | PHOSPHATE, TOTAL SOLUBLE (MG/L) | 02/22/68-08/18/69 | 1 | 38 | |
| BICA0177 | Yes | 00653 | PHOSPHATE, TOTAL SOLUBLE (MG/L) | 02/22/68-08/18/69 | 1 | 39 | |
| BICA0006 | No | 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 03/17/69-08/18/69 | 0 | 22 | |
| BICA0029 | Yes | 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 01/18/69-08/18/69 | 0 | 26 | |
| BICA0177 | Yes | 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 01/18/69-08/18/69 | 0 | 26 | |
| BICA0001 | No | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 02/26/73-04/19/74 | 1 | 4 | |
| BICA0002 | No | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 11/19/69-11/19/69 | 0 | 1 | |
| BICA0006 | No | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0019 | No | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 07/15/81-07/15/81 | 0 | 1 | |
| BICA0029 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0036 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0039 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 2 | 53 | |
| BICA0066 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 2 | 53 | |
| BICA0075 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 2 | 52 | |
| BICA0099 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 2 | 52 | |
| BICA0132 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 2 | 53 | |
| BICA0174 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 2 | 141 | |
| BICA0177 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0180 | Yes | 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 7 | 114 | |
| BICA0002 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 19 | 158 | |
| BICA0003 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0004 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/05/74-09/10/75 | 0 | 10 | |
| BICA0010 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0019 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 16 | 111 | |
| BICA0020 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0021 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 02/05/75-12/16/75 | 0 | 14 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0022 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 02/03/75-02/05/76 | 1 | 7 | |
| BICA0023 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0025 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/05/74-09/10/75 | 0 | 13 | |
| BICA0026 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 12/02/80-08/23/89 | 8 | 45 | |
| BICA0032 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0034 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/29/75-10/17/75 | 0 | 6 | |
| BICA0049 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0050 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/80-08/06/80 | 0 | 4 | |
| BICA0055 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0056 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/10/74-09/10/75 | 0 | 13 | |
| BICA0064 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0069 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0074 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/09/80-08/06/80 | 0 | 3 | |
| BICA0084 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0097 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0124 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/02/74-08/02/75 | 0 | 4 | |
| BICA0125 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0128 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0130 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0140 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0144 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0172 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0175 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/05/74-08/02/75 | 0 | 8 | |
| BICA0180 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/23/69-06/02/70 | 0 | 7 | |
| BICA0181 | Yes | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/01/76-07/01/76 | 0 | 1 | |
| BICA0185 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0187 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/31/76-04/20/83 | 6 | 6 | |
| BICA0201 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0209 | No | 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0002 | No | 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 11/19/69-06/30/70 | 0 | 3 | |
| BICA0019 | No | 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 16 | 114 | |
| BICA0180 | Yes | 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 138 | |
| BICA0003 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0004 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 10/05/74-09/10/75 | 0 | 11 | |
| BICA0010 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 06/09/80-04/01/81 | 0 | 12 | |
| BICA0019 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 07/15/81-07/15/81 | 0 | 1 | |
| BICA0021 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/05/75-12/16/75 | 0 | 14 | |
| BICA0022 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/03/75-01/14/76 | 0 | 5 | |
| BICA0023 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 06/09/80-04/01/81 | 0 | 12 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0025 | No | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 10/05/74-09/10/75 | 0 | 13 | |
| BICA0034 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/21/75-10/17/75 | 0 | 7 | |
| BICA0049 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 0 | 13 | |
| BICA0050 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 06/09/80-11/26/80 | 0 | 9 | |
| BICA0056 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 11/10/74-09/10/75 | 0 | 14 | |
| BICA0069 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 0 | 18 | |
| BICA0074 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 07/09/80-11/26/80 | 0 | 8 | |
| BICA0084 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 0 | 23 | |
| BICA0124 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 11/02/74-08/02/75 | 0 | 5 | |
| BICA0128 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0140 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 0 | 22 | |
| BICA0172 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 0 | 24 | |
| BICA0175 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 10/05/74-08/02/75 | 0 | 8 | |
| BICA0180 | Yes | 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 6 | 92 | |
| BICA0006 | No | 00680 | CARBON, TOTAL ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 26 | |
| BICA0029 | Yes | 00680 | CARBON, TOTAL ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 31 | |
| BICA0177 | Yes | 00680 | CARBON, TOTAL ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 32 | |
| BICA0006 | No | 00681 | CARBON, DISSOLVED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 26 | |
| BICA0029 | Yes | 00681 | CARBON, DISSOLVED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 31 | |
| BICA0177 | Yes | 00681 | CARBON, DISSOLVED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 32 | |
| BICA0006 | No | 00689 | CARBON, SUSPENDED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 26 | |
| BICA0029 | Yes | 00689 | CARBON, SUSPENDED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 31 | |
| BICA0177 | Yes | 00689 | CARBON, SUSPENDED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 0 | 31 | |
| BICA0014 | No | 00720 | CYANIDE, TOTAL (MG/L AS CN) MG/L | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0148 | No | 00745 | SULFIDE, TOTAL (MG/L AS S) | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0149 | No | 00745 | SULFIDE, TOTAL (MG/L AS S) | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0164 | No | 00745 | SULFIDE, TOTAL (MG/L AS S) | 03/02/84-03/02/84 | 0 | 1 | |
| BICA0002 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 03/26/47-02/16/83 | 35 | 503 | T,A,S |
| BICA0013 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/12/69-05/12/69 | 0 | 1 | |
| BICA0015 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 02/15/83-08/07/85 | 2 | 11 | |
| BICA0019 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 10/01/66-03/21/83 | 16 | 274 | A |
| BICA0026 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0032 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0044 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 02/13/70-02/13/70 | 0 | 1 | |
| BICA0055 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0067 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 10/01/66-08/25/81 | 14 | 223 | |
| BICA0182 | Yes | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 03/31/74-04/20/83 | 9 | 7 | |
| BICA0207 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00900 | HARDNESS, TOTAL (MG/L AS CACO3) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0002 | No | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 03/26/47-12/17/81 | 34 | 480 | T,A,S |
| BICA0019 | No | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 10/01/66-08/13/81 | 14 | 260 | |
| BICA0026 | No | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0061 | No | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0152 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 10/01/66-02/24/81 | 14 | 207 | |
| BICA0182 | Yes | 00902 | HARDNESS, NON-CARBONATE (MG/L AS CACO3) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0001 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 02/26/73-12/11/74 | 1 | 9 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------|-------------------|-------|-----|--------------------|
| BICA0002 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 43 | 544 | T,A,S |
| BICA0019 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0057 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/56-07/15/56 | 0 | 1 | |
| BICA0064 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0071 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0090 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0095 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0098 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0106 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0108 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0115 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0119 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0120 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0121 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0123 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0133 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0134 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0135 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0139 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0141 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0151 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0152 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0154 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0158 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0161 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0162 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0163 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0165 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0168 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0179 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-08/25/81 | 14 | 216 | |
| BICA0182 | Yes | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0183 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0186 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0189 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0194 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0198 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 03/31/74-04/20/83 | 9 | 7 | |
| BICA0200 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0207 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0006 | No | 00916 | CALCIUM, TOTAL (MG/L AS CA) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0029 | Yes | 00916 | CALCIUM, TOTAL (MG/L AS CA) | 02/22/68-08/18/69 | 1 | 45 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0061 | No | 00916 | CALCIUM, TOTAL (MG/L AS CA) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0177 | Yes | 00916 | CALCIUM, TOTAL (MG/L AS CA) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0001 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 43 | 544 | T,A,S |
| BICA0019 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0057 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/56-07/15/56 | 0 | 1 | |
| BICA0064 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0071 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0090 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0115 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0116 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0120 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0121 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0123 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0126 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0127 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0130 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0134 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0135 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0141 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0147 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0152 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0154 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0158 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0160 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0161 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0162 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0163 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0165 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0166 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0171 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 14 | 216 | |
| BICA0182 | Yes | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0183 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0186 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0187 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/31/74-04/20/83 | 9 | 7 | |
| BICA0200 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0207 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0006 | No | 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0029 | Yes | 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0061 | No | 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0177 | Yes | 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0006 | No | 00929 | SODIUM, TOTAL (MG/L AS NA) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0029 | Yes | 00929 | SODIUM, TOTAL (MG/L AS NA) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0061 | No | 00929 | SODIUM, TOTAL (MG/L AS NA) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0177 | Yes | 00929 | SODIUM, TOTAL (MG/L AS NA) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0001 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 39 | 527 | T,A,S |
| BICA0019 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0064 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0097 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0115 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0116 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0120 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0126 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0127 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0130 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0134 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0137 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0144 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0147 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0152 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 04/08/70-04/08/70 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0160 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0162 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0166 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0171 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0180 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-08/25/81 | 14 | 216 | |
| BICA0182 | Yes | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0187 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0198 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 03/31/74-04/20/83 | 9 | 7 | |
| BICA0201 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0207 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0001 | No | 00931 | SODIUM ADSORPTION RATIO | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 00931 | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 29 | 463 | T,A,S |
| BICA0019 | No | 00931 | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 16 | 274 | A |
| BICA0026 | No | 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 00931 | SODIUM ADSORPTION RATIO | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0061 | No | 00931 | SODIUM ADSORPTION RATIO | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0152 | Yes | 00931 | SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00931 | SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00931 | SODIUM ADSORPTION RATIO | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00931 | SODIUM ADSORPTION RATIO | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00931 | SODIUM ADSORPTION RATIO | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00931 | SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00931 | SODIUM ADSORPTION RATIO | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00931 | SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 14 | 216 | |
| BICA0182 | Yes | 00931 | SODIUM ADSORPTION RATIO | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0001 | No | 00932 | SODIUM, PERCENT | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 00932 | SODIUM, PERCENT | 12/01/49-02/16/83 | 33 | 347 | T,A,S |
| BICA0019 | No | 00932 | SODIUM, PERCENT | 10/01/66-03/21/83 | 16 | 273 | A |
| BICA0026 | No | 00932 | SODIUM, PERCENT | 08/20/58-09/16/68 | 10 | 76 | |
| BICA0036 | Yes | 00932 | SODIUM, PERCENT | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0180 | Yes | 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 14 | 216 | |
| BICA0002 | No | 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 12/01/49-06/02/51 | 1 | 19 | |
| BICA0019 | No | 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 07/22/79-02/20/80 | 0 | 7 | |
| BICA0180 | Yes | 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 05/08/79-02/18/80 | 0 | 9 | |
| BICA0001 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 33 | 474 | T,A,S |
| BICA0019 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0064 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0097 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0144 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0152 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 2 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

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From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0153 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0157 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0158 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0160 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0162 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0166 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0171 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0180 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 14 | 218 | |
| BICA0182 | Yes | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0185 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0187 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0201 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0209 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0006 | No | 00937 | POTASSIUM, TOTAL MG/L AS K) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0029 | Yes | 00937 | POTASSIUM, TOTAL MG/L AS K) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0061 | No | 00937 | POTASSIUM, TOTAL MG/L AS K) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0177 | Yes | 00937 | POTASSIUM, TOTAL MG/L AS K) | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0001 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 02/26/73-12/11/74 | 1 | 10 | |
| BICA0002 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 39 | 524 | T,A,S |
| BICA0006 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0019 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0029 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0036 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0061 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0064 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0177 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 02/22/68-08/18/69 | 1 | 46 | |
| BICA0180 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 14 | 217 | |
| BICA0182 | Yes | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 03/31/74-04/20/83 | 9 | 7 | |
| BICA0207 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00940 | CHLORIDE, TOTAL IN WATER MG/L | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0001 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 39 | 525 | T,A,S |
| BICA0006 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 02/22/68-08/18/69 | 1 | 39 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0019 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0029 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0036 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0057 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 07/15/56-07/15/56 | 0 | 1 | |
| BICA0061 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0064 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0067 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0177 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0180 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 14 | 224 | |
| BICA0182 | Yes | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 03/31/74-04/20/83 | 9 | 7 | |
| BICA0207 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 00945 | SULFATE, TOTAL (MG/L AS SO4) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0002 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 39 | 497 | T,A,S |
| BICA0019 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0064 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0139 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 14 | 217 | |
| BICA0182 | Yes | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 03/31/74-07/06/77 | 3 | 5 | |
| BICA0209 | No | 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0006 | No | 00951 | FLUORIDE, TOTAL (MG/L AS F) | 02/22/68-08/18/69 | 1 | 40 | |
| BICA0015 | No | 00951 | FLUORIDE, TOTAL (MG/L AS F) | 02/15/83-08/07/85 | 2 | 11 | |
| BICA0029 | Yes | 00951 | FLUORIDE, TOTAL (MG/L AS F) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0032 | Yes | 00951 | FLUORIDE, TOTAL (MG/L AS F) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0055 | Yes | 00951 | FLUORIDE, TOTAL (MG/L AS F) | 06/13/84-08/07/85 | 1 | 6 | |
| BICA0177 | Yes | 00951 | FLUORIDE, TOTAL (MG/L AS F) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0001 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 43 | 508 | T,A,S |
| BICA0019 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 20 | 291 | T,A |
| BICA0026 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0064 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0139 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-08/25/81 | 14 | 216 | |
| BICA0182 | Yes | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 01/11/77-07/06/77 | 0 | 4 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0199 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0006 | No | 00956 | SILICA, TOTAL (MG/L AS SI02) | 03/07/68-08/18/69 | 1 | 37 | |
| BICA0029 | Yes | 00956 | SILICA, TOTAL (MG/L AS SI02) | 03/07/68-08/18/69 | 1 | 43 | |
| BICA0177 | Yes | 00956 | SILICA, TOTAL (MG/L AS SI02) | 03/07/68-08/18/69 | 1 | 44 | |
| BICA0001 | No | 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 10/01/70-03/14/91 | 20 | 24 | |
| BICA0014 | No | 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0019 | No | 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0139 | No | 01002 | ARSENIC, TOTAL (UG/L AS AS) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01002 | ARSENIC, TOTAL (UG/L AS AS) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01002 | ARSENIC, TOTAL (UG/L AS AS) | 03/31/74-07/06/77 | 3 | 5 | |
| BICA0207 | No | 01002 | ARSENIC, TOTAL (UG/L AS AS) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 01002 | ARSENIC, TOTAL (UG/L AS AS) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/01/70-03/14/91 | 20 | 20 | |
| BICA0014 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0097 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0002 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/01/70-03/14/91 | 20 | 19 | |
| BICA0097 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0160 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0139 | No | 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01015 | BISMUTH, DISSOLVED (UG/L AS BI) | 10/01/70-04/13/71 | 0 | 3 | |
| BICA0001 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 42 | 366 | T,A,S |
| BICA0019 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 9 | 201 | |
| BICA0026 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0064 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0097 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0152 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0153 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0157 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0165 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0166 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0169 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0171 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0180 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-06/06/74 | 7 | 79 | |
| BICA0182 | Yes | 01020 | BORON, DISSOLVED (UG/L AS B) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0185 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/07/78-11/07/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0205 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01020 | BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0002 | No | 01022 | BORON, TOTAL (UG/L AS B) | 06/27/50-06/27/50 | 0 | 1 | |
| BICA0139 | No | 01022 | BORON, TOTAL (UG/L AS B) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01022 | BORON, TOTAL (UG/L AS B) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01022 | BORON, TOTAL (UG/L AS B) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01022 | BORON, TOTAL (UG/L AS B) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 10/01/70-03/14/91 | 20 | 23 | |
| BICA0003 | No | 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0014 | No | 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0019 | No | 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0067 | Yes | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 12/20/73-07/06/77 | 3 | 7 | |
| BICA0207 | No | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 01027 | CADMIUM, TOTAL (UG/L AS CD) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/01/70-03/14/91 | 20 | 25 | |
| BICA0003 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0071 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0145 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0014 | No | 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0019 | No | 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0019 | No | 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0139 | No | 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/01/70-03/14/91 | 20 | 14 | |
| BICA0019 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0071 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------|-------------------|-------|-----|--------------------|
| BICA0110 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01035 | COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0139 | No | 01037 | COBALT, TOTAL (UG/L AS CO) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01037 | COBALT, TOTAL (UG/L AS CO) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01037 | COBALT, TOTAL (UG/L AS CO) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01037 | COBALT, TOTAL (UG/L AS CO) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0001 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/01/70-03/14/91 | 20 | 25 | |
| BICA0003 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0036 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0071 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------|-------------------|-------|-----|--------------------|
| BICA0089 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------|-------------------|-------|-----|--------------------|
| BICA0204 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01040 | COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0006 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 02/22/68-08/18/69 | 1 | 39 | |
| BICA0029 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 02/22/68-08/18/69 | 1 | 44 | |
| BICA0039 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0061 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0066 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0067 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0075 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0099 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0115 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0132 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0134 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0174 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0177 | Yes | 01042 | COPPER, TOTAL (UG/L AS CU) | 02/22/68-08/18/69 | 1 | 43 | |
| BICA0186 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 12/20/73-07/06/77 | 3 | 7 | |
| BICA0207 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 01042 | COPPER, TOTAL (UG/L AS CU) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01045 | IRON, TOTAL (UG/L AS FE) | 03/26/47-09/15/71 | 24 | 95 | |
| BICA0019 | No | 01045 | IRON, TOTAL (UG/L AS FE) | 10/09/67-03/03/71 | 3 | 9 | |
| BICA0026 | No | 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 9 | 49 | |
| BICA0067 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0180 | Yes | 01045 | IRON, TOTAL (UG/L AS FE) | 01/03/68-01/03/68 | 0 | 1 | |
| BICA0199 | No | 01045 | IRON, TOTAL (UG/L AS FE) | 12/20/73-04/20/83 | 9 | 4 | |
| BICA0207 | No | 01045 | IRON, TOTAL (UG/L AS FE) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 01045 | IRON, TOTAL (UG/L AS FE) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0001 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/26/71-03/14/91 | 20 | 44 | |
| BICA0003 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0019 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/04/73-08/06/75 | 1 | 21 | |
| BICA0036 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0061 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0071 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|------------------------------|-------------------|-------|-----|--------------------|
| BICA0111 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0141 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 9 | 126 | |
| BICA0183 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0187 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0199 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0200 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0209 | No | 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0001 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 10/01/70-03/14/91 | 20 | 25 | |
| BICA0003 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0014 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0019 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0071 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0088 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0098 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0106 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0108 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0118 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0135 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0141 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0145 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0151 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0163 | Yes | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0179 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0189 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0196 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0200 | No | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0139 | No | 01051 | LEAD, TOTAL (UG/L AS PB) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01051 | LEAD, TOTAL (UG/L AS PB) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01051 | LEAD, TOTAL (UG/L AS PB) | 12/20/73-07/06/77 | 3 | 5 | |
| BICA0207 | No | 01051 | LEAD, TOTAL (UG/L AS PB) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 01051 | LEAD, TOTAL (UG/L AS PB) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 01051 | LEAD, TOTAL (UG/L AS PB) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0006 | No | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 02/22/68-08/18/69 | 1 | 39 | |
| BICA0029 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 02/22/68-08/18/69 | 1 | 44 | |
| BICA0039 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 0 | 15 | |
| BICA0066 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0067 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0075 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0099 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0115 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0132 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0134 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0174 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0177 | Yes | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0199 | No | 01055 | MANGANESE, TOTAL (UG/L AS MN) | 03/31/74-04/20/83 | 9 | 3 | |
| BICA0001 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/01/70-03/14/91 | 20 | 24 | |
| BICA0003 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0036 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0071 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0088 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0139 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0141 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0180 | Yes | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 7 | 117 | |
| BICA0183 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0186 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0187 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|------------------------------------|-------------------|-------|-----|--------------------|
| BICA0199 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0200 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0209 | No | 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0001 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/01/70-08/30/89 | 18 | 17 | |
| BICA0036 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0071 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|------------------------------------|-------------------|-------|-----|--------------------|
| BICA0167 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0061 | No | 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0139 | No | 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/01/70-08/30/89 | 18 | 16 | |
| BICA0071 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------|-------------------|-------|-----|--------------------|
| BICA0137 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0139 | No | 01067 | NICKEL, TOTAL (UG/L AS NI) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01067 | NICKEL, TOTAL (UG/L AS NI) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01067 | NICKEL, TOTAL (UG/L AS NI) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0209 | No | 01067 | NICKEL, TOTAL (UG/L AS NI) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/01/70-03/14/91 | 20 | 23 | |
| BICA0014 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0097 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0188 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0002 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/01/70-03/14/91 | 20 | 14 | |
| BICA0097 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0139 | No | 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/01/70-08/30/89 | 18 | 13 | |
| BICA0097 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------|-------------------|-------|-----|--------------------|
| BICA0160 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0139 | No | 01087 | VANADIUM, TOTAL (UG/L AS V) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01087 | VANADIUM, TOTAL (UG/L AS V) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01087 | VANADIUM, TOTAL (UG/L AS V) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01087 | VANADIUM, TOTAL (UG/L AS V) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0001 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/01/70-03/14/91 | 20 | 22 | |
| BICA0003 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/19/72-10/31/73 | 1 | 7 | |
| BICA0019 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0036 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0071 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0138 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0006 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 03/28/68-08/18/69 | 1 | 36 | |
| BICA0029 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 03/28/68-08/18/69 | 1 | 40 | |
| BICA0039 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0061 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0066 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0067 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0075 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0099 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0115 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0132 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0134 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0174 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 0 | 16 | |
| BICA0177 | Yes | 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/11/68-08/18/69 | 1 | 41 | |
| BICA0186 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 12/20/73-07/06/77 | 3 | 7 | |
| BICA0207 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0208 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 12/20/73-12/20/73 | 0 | 1 | |
| BICA0209 | No | 01092 | ZINC, TOTAL (UG/L AS ZN) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01100 | TIN, DISSOLVED (UG/L AS SN) | 10/01/70-04/13/71 | 0 | 3 | |
| BICA0061 | No | 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0139 | No | 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/01/70-03/14/91 | 20 | 11 | |
| BICA0097 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/07/78-10/07/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0116 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0097 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0002 | No | 01120 | GALLIUM, DISSOLVED (UG/L AS GA) | 10/01/70-04/13/71 | 0 | 3 | |
| BICA0002 | No | 01125 | GERMANIUM, DISSOLVED (UG/L AS GE) | 10/01/70-04/13/71 | 0 | 3 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0002 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/01/70-03/14/91 | 20 | 14 | |
| BICA0097 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0061 | No | 01132 | LITHIUM, TOTAL (UG/L AS LI) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0139 | No | 01132 | LITHIUM, TOTAL (UG/L AS LI) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01132 | LITHIUM, TOTAL (UG/L AS LI) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01132 | LITHIUM, TOTAL (UG/L AS LI) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01132 | LITHIUM, TOTAL (UG/L AS LI) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01135 | RUBIDIUM, DISSOLVED (UG/L AS RB) | 10/01/70-04/13/71 | 0 | 3 | |
| BICA0097 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0194 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0001 | No | 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 11/04/87-03/14/91 | 3 | 19 | |
| BICA0014 | No | 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0019 | No | 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 02/08/89-08/31/92 | 3 | 11 | |
| BICA0026 | No | 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 02/08/89-08/23/89 | 0 | 3 | |
| BICA0064 | No | 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0139 | No | 01147 | SELENIUM, TOTAL (UG/L AS SE) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 01147 | SELENIUM, TOTAL (UG/L AS SE) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 01147 | SELENIUM, TOTAL (UG/L AS SE) | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 01147 | SELENIUM, TOTAL (UG/L AS SE) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/01/70-04/13/71 | 0 | 3 | |
| BICA0071 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0081 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0097 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0098 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------------|-------------------|-------|-----|--------------------|
| BICA0154 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0200 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0002 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/01/70-04/13/71 | 0 | 3 | |
| BICA0097 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0097 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------|-------------------|-------|-----|--------------------|
| BICA0107 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0097 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0005 | No | 01501 | ALPHA, TOTAL | 09/18/75-09/18/75 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|------------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0020 | No | 01501 | ALPHA, TOTAL | 06/09/76-04/19/78 | 1 | 8 | |
| BICA0005 | No | 01502 | ALPHA, TOTAL, COUNTING ERROR | 09/18/75-09/18/75 | 0 | 1 | |
| BICA0020 | No | 01502 | ALPHA, TOTAL, COUNTING ERROR | 06/09/76-04/19/78 | 1 | 8 | |
| BICA0016 | No | 01503 | ALPHA, DISSOLVED | 06/29/67-05/15/71 | 3 | 15 | |
| BICA0046 | Yes | 01503 | ALPHA, DISSOLVED | 12/14/67-05/15/71 | 3 | 11 | |
| BICA0016 | No | 01504 | ALPHA, DISSOLVED, COUNTING ERROR | 06/29/67-05/15/71 | 3 | 15 | |
| BICA0046 | Yes | 01504 | ALPHA, DISSOLVED, COUNTING ERROR | 12/14/67-05/15/71 | 3 | 11 | |
| BICA0016 | No | 01505 | ALPHA, SUSPENDED | 06/29/67-05/15/71 | 3 | 14 | |
| BICA0046 | Yes | 01505 | ALPHA, SUSPENDED | 12/14/67-05/15/71 | 3 | 12 | |
| BICA0016 | No | 01506 | ALPHA, SUSPENDED, COUNTING ERROR | 06/29/67-05/15/71 | 3 | 14 | |
| BICA0046 | Yes | 01506 | ALPHA, SUSPENDED, COUNTING ERROR | 12/14/67-05/15/71 | 3 | 12 | |
| BICA0016 | No | 01507 | ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 06/29/67-05/15/71 | 3 | 12 | |
| BICA0046 | Yes | 01507 | ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 12/14/67-10/15/70 | 2 | 9 | |
| BICA0016 | No | 01508 | ALPHA, GROSS IN SEDIMENT, COUNTING ERROR | 06/29/67-05/15/71 | 3 | 12 | |
| BICA0046 | Yes | 01508 | ALPHA, GROSS IN SEDIMENT, COUNTING ERROR | 12/14/67-10/15/70 | 2 | 9 | |
| BICA0005 | No | 03501 | BETA, TOTAL | 09/18/75-09/18/75 | 0 | 1 | |
| BICA0020 | No | 03501 | BETA, TOTAL | 06/09/76-04/19/78 | 1 | 8 | |
| BICA0005 | No | 03502 | BETA, TOTAL, COUNTING ERROR | 09/18/75-09/18/75 | 0 | 1 | |
| BICA0020 | No | 03502 | BETA, TOTAL, COUNTING ERROR | 06/09/76-04/19/78 | 1 | 8 | |
| BICA0016 | No | 03503 | BETA, DISSOLVED | 06/29/67-05/15/71 | 3 | 16 | |
| BICA0046 | Yes | 03503 | BETA, DISSOLVED | 12/14/67-05/15/71 | 3 | 14 | |
| BICA0016 | No | 03504 | BETA, DISSOLVED, COUNTING ERROR | 06/29/67-05/15/71 | 3 | 16 | |
| BICA0046 | Yes | 03504 | BETA, DISSOLVED, COUNTING ERROR | 12/14/67-05/15/71 | 3 | 14 | |
| BICA0016 | No | 03505 | BETA, SUSPENDED | 06/29/67-05/15/71 | 3 | 16 | |
| BICA0046 | Yes | 03505 | BETA, SUSPENDED | 12/14/67-05/15/71 | 3 | 13 | |
| BICA0016 | No | 03506 | BETA, SUSPENDED, COUNTING ERROR | 06/29/67-05/15/71 | 3 | 16 | |
| BICA0046 | Yes | 03506 | BETA, SUSPENDED, COUNTING ERROR | 12/14/67-05/15/71 | 3 | 13 | |
| BICA0016 | No | 03507 | BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 06/29/67-05/15/71 | 3 | 12 | |
| BICA0046 | Yes | 03507 | BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 12/14/67-05/15/71 | 3 | 11 | |
| BICA0016 | No | 03508 | BETA, GROSS IN SEDIMENT, COUNTING ERROR | 06/29/67-05/15/71 | 3 | 12 | |
| BICA0046 | Yes | 03508 | BETA, GROSS IN SEDIMENT, COUNTING ERROR | 12/14/67-05/15/71 | 3 | 11 | |
| BICA0002 | No | 04024 | PROPACHLOR, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04024 | PROPACHLOR, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04028 | BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04028 | BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04029 | BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04029 | BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04035 | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04035 | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04037 | PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04037 | PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04040 | DEETHYL ATRAZINE, DISSOLVED, WATER, TOT REC UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04040 | DEETHYL ATRAZINE, DISSOLVED, WATER, TOT REC UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04041 | CYANAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04041 | CYANAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 04091 | CLOPYRALID, TOTAL RECOVERABLE, WATER UG/L | 08/08/91-08/31/92 | 1 | 2 | |
| BICA0002 | No | 04095 | FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 04095 | FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0003 | No | 09503 | RADIUM 226, DISSOLVED | 07/24/73-07/24/73 | 0 | 1 | |
| BICA0003 | No | 09505 | RADIUM 226, SUSPENDED | 07/24/73-07/24/73 | 0 | 1 | |
| BICA0003 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/24/73-07/24/73 | 0 | 1 | |
| BICA0007 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0008 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0009 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0011 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/01/76-08/01/76 | 0 | 1 | |
| BICA0012 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0017 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0018 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0030 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0033 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 0 | 1 | |
| BICA0037 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0038 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0040 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0041 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0043 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 0 | 1 | |
| BICA0048 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0054 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0058 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0060 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 0 | 1 | |
| BICA0071 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/06/78-07/06/78 | 0 | 1 | |
| BICA0076 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0078 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-----------------------------|-------------------|-------|-----|--------------------|
| BICA0081 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0082 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0085 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0086 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0088 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0089 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0090 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0091 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0092 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0093 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0094 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0095 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0096 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/15/78-07/15/78 | 0 | 1 | |
| BICA0098 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0101 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0102 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0103 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0104 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0106 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0107 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0108 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0109 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 0 | 1 | |
| BICA0110 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 0 | 1 | |
| BICA0111 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 04/14/78-04/14/78 | 0 | 1 | |
| BICA0112 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0114 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0116 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0118 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0119 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0121 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0122 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 0 | 1 | |
| BICA0125 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0135 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0137 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0141 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0144 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0145 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0146 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0151 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0154 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0155 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0156 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0157 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0163 | Yes | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0166 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0179 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0183 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0185 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0189 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0191 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0192 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0193 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0196 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 0 | 1 | |
| BICA0197 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0200 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 01/19/79-01/19/79 | 0 | 1 | |
| BICA0201 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0003 | No | 22705 | URANIUM, NATURAL, SUSPENDED | 07/24/73-07/24/73 | 0 | 1 | |
| BICA0002 | No | 31501 | COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 08/29/69-10/31/73 | 4 | 11 | |
| BICA0178 | Yes | 31501 | COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0180 | Yes | 31501 | COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 07/23/69-04/20/70 | 0 | 6 | |
| BICA0181 | Yes | 31501 | COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0047 | Yes | 31505 | COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 7 | 59 | |
| BICA0178 | Yes | 31505 | COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0181 | Yes | 31505 | COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0051 | Yes | 31506 | COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 6 | 7 | |
| BICA0053 | Yes | 31506 | COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 6 | 24 | |
| BICA0015 | No | 31613 | FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR | 06/16/81-11/04/87 | 6 | 21 | |
| BICA0032 | Yes | 31613 | FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR | 06/13/84-07/31/86 | 2 | 8 | |
| BICA0055 | Yes | 31613 | FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR | 06/13/84-08/25/88 | 4 | 11 | |
| BICA0051 | Yes | 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 16 | 137 | |
| BICA0053 | Yes | 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 18 | 136 | |
| BICA0047 | Yes | 31615 | FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614) | 06/05/68-09/13/71 | 3 | 56 | |
| BICA0002 | No | 31616 | FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 07/19/72-09/04/76 | 4 | 38 | |
| BICA0020 | No | 31616 | FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 06/09/76-04/19/78 | 1 | 9 | |
| BICA0047 | Yes | 31616 | FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 06/09/76-06/06/78 | 1 | 15 | |
| BICA0178 | Yes | 31616 | FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0181 | Yes | 31616 | FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 10/24/76-10/24/76 | 0 | 1 | |
| BICA0002 | No | 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 84 | |
| BICA0019 | No | 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 11/12/78-07/28/89 | 10 | 40 | |
| BICA0026 | No | 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 7 | 42 | |
| BICA0031 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0042 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0050 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 06/09/80-11/26/80 | 0 | 9 | |
| BICA0068 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0074 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 07/09/80-11/26/80 | 0 | 8 | |
| BICA0100 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0129 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0142 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0173 | Yes | 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0034 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0049 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0069 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0084 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0128 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0140 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0172 | Yes | 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0039 | Yes | 32238 | CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 2 | 50 | |
| BICA0066 | Yes | 32238 | CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 2 | 51 | |
| BICA0075 | Yes | 32238 | CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 2 | 51 | |
| BICA0099 | Yes | 32238 | CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 2 | 49 | |
| BICA0132 | Yes | 32238 | CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 2 | 50 | |
| BICA0174 | Yes | 32238 | CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 2 | 51 | |
| BICA0002 | No | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 11/01/65-09/21/66 | 0 | 30 | |
| BICA0014 | No | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0026 | No | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 10/05/62-09/01/66 | 3 | 53 | |
| BICA0002 | No | 34253 | A-BHC-ALPHA DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 34253 | A-BHC-ALPHA DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 34609 | 2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0026 | No | 34609 | 2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 34653 | P,P'-DDE DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 34653 | P,P'-DDE DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0014 | No | 38260 | METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.) | 02/08/73-02/08/73 | 0 | 1 | |
| BICA0180 | Yes | 38260 | METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.) | 07/23/69-06/02/70 | 0 | 7 | |
| BICA0002 | No | 38442 | DICAMBA (BANVEL) WATER,DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38442 | DICAMBA (BANVEL) WATER,DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38478 | LINURON WATER,DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38478 | LINURON WATER,DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38482 | MCPA WATER,DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38482 | MCPA WATER,DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38487 | MCPB WATER,DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38487 | MCPB WATER,DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0002 | No | 38501 | METHIOCARB WATER,DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38501 | METHIOCARB WATER,DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38538 | PROPOXUR WATER,DISSUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38538 | PROPOXUR WATER,DISSUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38711 | BENTAZON WATER, DISUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38711 | BENTAZON WATER, DISUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38746 | 2,4-DB WATER, DISUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38746 | 2,4-DB WATER, DISUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38811 | FLUOMETURON WATER, DISUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38811 | FLUOMETURON WATER, DISUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38866 | OXAMYL WATER, DISUG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38866 | OXAMYL WATER, DISUG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 38933 | CHLORPYRIFOS,DISSOLVED UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 38933 | CHLORPYRIFOS,DISSOLVED UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39034 | PERTHANE IN WHOLE WATER SAMPLE (UG/L) | 10/25/78-09/04/80 | 1 | 5 | |
| BICA0026 | No | 39034 | PERTHANE IN WHOLE WATER SAMPLE (UG/L) | 10/25/78-09/04/80 | 1 | 5 | |
| BICA0002 | No | 39250 | NAPHTHALENES, POLYCHLORINATED (UG/L) | 09/23/76-09/04/80 | 3 | 6 | |
| BICA0026 | No | 39250 | NAPHTHALENES, POLYCHLORINATED (UG/L) | 09/23/76-09/04/80 | 3 | 7 | |
| BICA0002 | No | 39251 | PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 0 | 2 | |
| BICA0026 | No | 39251 | PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39331 | ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39332 | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39333 | ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39333 | ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39341 | GAMMA-BHC(LINDANE),DISSOLVED,UG/L | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39341 | GAMMA-BHC(LINDANE),DISSOLVED,UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39342 | GAMMA-BHC(LINDANE),SUSPENDE,UG/L | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39343 | GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39343 | GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39351 | CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39351 | CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39352 | CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39353 | CHLORDANE(TECH MIX & METABS),SUSPENDE,UG/L | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39361 | DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39362 | DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39363 | DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39363 | DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39366 | DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39367 | DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39368 | DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39368 | DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39371 | DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39372 | DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39373 | DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39373 | DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39382 | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39383 | DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39383 | DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L) | 10/19/77-09/04/80 | 2 | 7 | |
| BICA0026 | No | 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L) | 06/08/77-09/04/80 | 3 | 8 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0002 | No | 39389 | ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0026 | No | 39389 | ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39391 | ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39392 | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39393 | ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39393 | ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39398 | ETHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 8 | |
| BICA0026 | No | 39398 | ETHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 8 | |
| BICA0026 | No | 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39403 | TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0026 | No | 39403 | TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39411 | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39412 | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39413 | HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39413 | HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39415 | METOLACHLOR, WATER, DISSOLVED UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 39415 | METOLACHLOR, WATER, DISSOLVED UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39421 | HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39422 | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39423 | HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39423 | HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0026 | No | 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 39481 | METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0026 | No | 39481 | METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 17 | |
| BICA0026 | No | 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39517 | PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39518 | PCBS IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39519 | PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39519 | PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39532 | MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39532 | MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39533 | MALATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 7 | |
| BICA0002 | No | 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39543 | PARATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 7 | |
| BICA0002 | No | 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39572 | DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39572 | DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39573 | DIAZINON IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 7 | |
| BICA0002 | No | 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 8 | 15 | |
| BICA0026 | No | 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39602 | METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39603 | METHYL PARATHION IN SUSP. FRAC. WATER SAMP.(UG/L) | 09/07/71-08/01/73 | 1 | 7 | |
| BICA0002 | No | 39632 | ATRAZINE DISSOLVED IN WATER PPB | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 39632 | ATRAZINE DISSOLVED IN WATER PPB | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39720 | PICLORAM IN WHOLE WATER SAMPLE (UG/L) | 06/20/84-08/31/92 | 8 | 34 | |
| BICA0002 | No | 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 20 | 51 | |
| BICA0026 | No | 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39731 | 2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 2 | 6 | |
| BICA0026 | No | 39731 | 2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 2 | 6 | |
| BICA0002 | No | 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39733 | 2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 20 | 51 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0026 | No | 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39741 | 2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 2 | 6 | |
| BICA0026 | No | 39741 | 2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 2 | 6 | |
| BICA0002 | No | 39742 | 2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39742 | 2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39743 | 2,4,5-T IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39755 | MIREX, TOTAL (UG/L) | 10/25/78-09/04/80 | 1 | 5 | |
| BICA0026 | No | 39755 | MIREX, TOTAL (UG/L) | 10/25/78-09/04/80 | 1 | 5 | |
| BICA0002 | No | 39758 | MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0026 | No | 39758 | MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 20 | 51 | |
| BICA0026 | No | 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0180 | Yes | 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 0 | 2 | |
| BICA0002 | No | 39761 | SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 2 | 6 | |
| BICA0026 | No | 39761 | SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 2 | 6 | |
| BICA0002 | No | 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 24 | 11 | |
| BICA0019 | No | 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 39763 | SILVEX IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 1 | 9 | |
| BICA0002 | No | 39786 | TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 8 | |
| BICA0026 | No | 39786 | TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 39790 | METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 8 | |
| BICA0026 | No | 39790 | METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 3 | 9 | |
| BICA0002 | No | 46342 | ALACHLOR (LASSO), WATER, DISSOLVED UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 46342 | ALACHLOR (LASSO), WATER, DISSOLVED UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0061 | No | 46570 | HARDNESS, CA MG CALCULATED (MG/L AS CaCO3) | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0002 | No | 49235 | TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49235 | TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49236 | PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49236 | PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49260 | ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49260 | ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49291 | PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49291 | PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49292 | ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49292 | ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49293 | NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49293 | NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49294 | NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49294 | NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49295 | NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49295 | NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49296 | METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49296 | METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49297 | FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49297 | FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49298 | ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49298 | ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49299 | CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49299 | CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49300 | DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49300 | DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49301 | DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49301 | DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49302 | DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49302 | DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49303 | DICHOLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49303 | DICHOLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49304 | DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49304 | DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49305 | CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49305 | CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49306 | CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49306 | CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49307 | AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49307 | AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49308 | HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49308 | HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49309 | CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49309 | CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49310 | CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49310 | CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0002 | No | 49311 | BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49311 | BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49312 | ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49312 | ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49313 | ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49313 | ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49314 | ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49314 | ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 49315 | ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 49315 | ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0097 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0166 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0001 | No | 70299 | SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L) | 02/26/73-12/11/74 | 1 | 10 | |
| BICA0003 | No | 70299 | SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L) | 07/24/73-07/24/73 | 0 | 1 | |
| BICA0001 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 02/26/73-12/11/74 | 1 | 10 | |
| BICA0002 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 26 | 412 | T,A,S |
| BICA0019 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-05/16/72 | 5 | 136 | |
| BICA0026 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0036 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0057 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 07/15/56-07/15/56 | 0 | 1 | |
| BICA0061 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 05/27/57-05/27/57 | 0 | 1 | |
| BICA0139 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0153 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0165 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0169 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 0 | 1 | |
| BICA0180 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-12/01/70 | 4 | 71 | |
| BICA0182 | Yes | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 01/12/77-07/06/77 | 0 | 4 | |
| BICA0209 | No | 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 15 | 211 | |
| BICA0019 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 15 | 248 | |
| BICA0026 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/03/58-09/16/68 | 9 | 37 | |
| BICA0067 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/05/74-05/05/74 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0120 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0152 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 13 | 195 | |
| BICA0182 | Yes | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0186 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 03/31/74-07/06/77 | 3 | 6 | |
| BICA0207 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 01/12/77-04/20/83 | 6 | 5 | |
| BICA0210 | No | 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 09/16/76-09/16/76 | 0 | 1 | |
| BICA0002 | No | 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 35 | 516 | T,A,S |
| BICA0019 | No | 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 16 | 263 | A |
| BICA0026 | No | 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0180 | Yes | 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 14 | 220 | |
| BICA0002 | No | 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 35 | 517 | T,A,S |
| BICA0019 | No | 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 16 | 274 | A |
| BICA0026 | No | 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 10 | 162 | |
| BICA0180 | Yes | 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 14 | 220 | |
| BICA0002 | No | 70326 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM | 10/07/49-07/23/51 | 1 | 15 | |
| BICA0002 | No | 70327 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM | 10/07/49-07/23/51 | 1 | 18 | |
| BICA0002 | No | 70328 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM | 10/07/49-07/23/51 | 1 | 19 | |
| BICA0002 | No | 70329 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM | 10/07/49-07/23/51 | 1 | 19 | |
| BICA0002 | No | 70330 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM | 10/07/49-07/23/51 | 1 | 18 | |
| BICA0002 | No | 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 33 | 125 | T,S |
| BICA0019 | No | 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 12/06/76-08/18/82 | 5 | 49 | |
| BICA0026 | No | 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/59-09/12/61 | 1 | 22 | |
| BICA0184 | Yes | 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0190 | Yes | 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0195 | No | 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0002 | No | 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 33 | 100 | S |
| BICA0026 | No | 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/59-09/12/61 | 1 | 22 | |
| BICA0002 | No | 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 11 | 96 | |
| BICA0026 | No | 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/59-09/12/61 | 1 | 21 | |
| BICA0002 | No | 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 11 | 85 | |
| BICA0026 | No | 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/59-05/19/61 | 1 | 13 | |
| BICA0002 | No | 70335 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM | 06/22/50-06/10/60 | 9 | 2 | |
| BICA0026 | No | 70335 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM | 11/05/59-11/30/59 | 0 | 2 | |
| BICA0002 | No | 70337 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/49-06/12/91 | 41 | 29 | S |
| BICA0026 | No | 70337 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/59-10/07/60 | 1 | 10 | |
| BICA0002 | No | 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 41 | 154 | T,S |
| BICA0019 | No | 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/07/71-04/09/80 | 8 | 13 | |
| BICA0026 | No | 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/59-07/02/64 | 4 | 25 | |
| BICA0059 | No | 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 07/22/70-06/10/77 | 6 | 17 | |
| BICA0002 | No | 70339 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM | 10/01/49-06/12/91 | 41 | 36 | S |
| BICA0002 | No | 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 41 | 155 | T,S |
| BICA0019 | No | 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/07/71-04/09/80 | 8 | 13 | |
| BICA0026 | No | 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/59-07/02/64 | 4 | 25 | |
| BICA0059 | No | 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 07/22/70-06/10/77 | 6 | 17 | |
| BICA0002 | No | 70341 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM | 10/01/49-06/12/91 | 41 | 29 | |
| BICA0002 | No | 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-06/12/91 | 31 | 69 | S |
| BICA0019 | No | 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/07/71-07/07/82 | 10 | 14 | |
| BICA0026 | No | 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-07/02/64 | 4 | 25 | |
| BICA0059 | No | 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 07/22/70-06/10/77 | 6 | 17 | |
| BICA0002 | No | 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-06/12/91 | 31 | 67 | S |
| BICA0019 | No | 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/07/71-07/07/82 | 10 | 11 | |
| BICA0026 | No | 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-07/02/64 | 4 | 25 | |
| BICA0059 | No | 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 03/09/71-06/10/77 | 6 | 13 | |
| BICA0002 | No | 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-06/12/91 | 31 | 66 | S |
| BICA0019 | No | 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/07/71-07/07/82 | 10 | 11 | |
| BICA0026 | No | 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-07/02/64 | 4 | 24 | |
| BICA0059 | No | 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 03/09/71-06/10/77 | 6 | 6 | |
| BICA0002 | No | 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-06/12/91 | 31 | 44 | S |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|--------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0019 | No | 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/07/71-07/07/82 | 10 | 8 | |
| BICA0026 | No | 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-07/02/64 | 4 | 15 | |
| BICA0059 | No | 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 07/28/73-07/28/73 | 0 | 1 | |
| BICA0002 | No | 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 06/10/60-05/02/78 | 17 | 5 | |
| BICA0019 | No | 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 07/07/82-07/07/82 | 0 | 1 | |
| BICA0026 | No | 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 11/05/59-11/30/59 | 0 | 2 | |
| BICA0002 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 02/08/82-02/08/82 | 0 | 1 | |
| BICA0026 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 02/10/82-02/10/82 | 0 | 1 | |
| BICA0067 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0180 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 02/04/71-03/02/72 | 1 | 20 | |
| BICA0181 | Yes | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 07/01/76-07/01/76 | 0 | 1 | |
| BICA0186 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 07/01/76-07/06/77 | 1 | 7 | |
| BICA0199 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 03/31/74-04/20/83 | 9 | 8 | |
| BICA0207 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 11/19/73-11/19/73 | 0 | 1 | |
| BICA0209 | No | 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 06/30/76-04/20/83 | 6 | 8 | |
| BICA0002 | No | 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH4) | 11/20/80-01/05/81 | 0 | 3 | |
| BICA0026 | No | 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH4) | 12/02/80-12/02/80 | 0 | 1 | |
| BICA0001 | No | 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 10/01/64-06/23/81 | 16 | 29 | |
| BICA0026 | No | 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 10/01/64-09/21/65 | 0 | 27 | |
| BICA0036 | Yes | 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 12/16/68-07/12/69 | 0 | 6 | |
| BICA0002 | No | 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 12/01/49-09/22/61 | 11 | 70 | |
| BICA0026 | No | 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 4 | 47 | |
| BICA0001 | No | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 02/26/73-12/11/74 | 1 | 9 | |
| BICA0002 | No | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 32 | 428 | T,A,S |
| BICA0019 | No | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 5 | 136 | |
| BICA0026 | No | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 8 | 148 | |
| BICA0036 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/16/68-10/26/70 | 1 | 8 | |
| BICA0152 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0153 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0158 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0159 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0162 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 04/08/70-04/08/70 | 0 | 1 | |
| BICA0165 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0169 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 07/29/68-06/16/69 | 0 | 3 | |
| BICA0170 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 2 | |
| BICA0180 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-12/01/70 | 4 | 72 | |
| BICA0182 | Yes | 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/06/68-09/02/68 | 0 | 4 | |
| BICA0002 | No | 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 10/01/64-09/19/65 | 0 | 27 | |
| BICA0019 | No | 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 04/20/81-04/20/81 | 0 | 1 | |
| BICA0026 | No | 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 10/01/64-09/21/65 | 0 | 25 | |
| BICA0036 | Yes | 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 12/16/68-04/15/69 | 0 | 4 | |
| BICA0180 | Yes | 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 07/23/69-06/02/70 | 0 | 6 | |
| BICA0002 | No | 71870 | BROMIDE (MG/L AS BR) | 10/01/63-09/19/65 | 1 | 53 | |
| BICA0026 | No | 71870 | BROMIDE (MG/L AS BR) | 11/04/63-09/21/65 | 1 | 38 | |
| BICA0002 | No | 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 6 | 135 | |
| BICA0019 | No | 71885 | IRON (UG/L AS FE) | 10/05/66-07/03/67 | 0 | 4 | |
| BICA0026 | No | 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 7 | 88 | |
| BICA0180 | Yes | 71885 | IRON (UG/L AS FE) | 04/21/67-09/14/67 | 0 | 2 | |
| BICA0002 | No | 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 11/20/80-10/15/85 | 4 | 36 | |
| BICA0019 | No | 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 04/18/79-08/14/85 | 6 | 37 | |
| BICA0026 | No | 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 12/02/80-10/16/85 | 4 | 27 | |
| BICA0002 | No | 71887 | NITROGEN, TOTAL, AS NO3 - MG/L | 11/20/80-08/13/85 | 4 | 26 | |
| BICA0026 | No | 71887 | NITROGEN, TOTAL, AS NO3 - MG/L | 12/02/80-03/21/83 | 2 | 16 | |
| BICA0001 | No | 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 02/26/73-12/05/73 | 0 | 5 | |
| BICA0002 | No | 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 11/04/87-03/14/91 | 3 | 17 | |
| BICA0019 | No | 71900 | MERCURY, TOTAL (UG/L AS HG) | 11/03/70-11/03/70 | 0 | 1 | |
| BICA0067 | Yes | 71900 | MERCURY, TOTAL (UG/L AS HG) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0115 | Yes | 71900 | MERCURY, TOTAL (UG/L AS HG) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0120 | Yes | 71900 | MERCURY, TOTAL (UG/L AS HG) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0123 | Yes | 71900 | MERCURY, TOTAL (UG/L AS HG) | 05/05/74-05/05/74 | 0 | 1 | |
| BICA0127 | Yes | 71900 | MERCURY, TOTAL (UG/L AS HG) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0134 | Yes | 71900 | MERCURY, TOTAL (UG/L AS HG) | 05/04/74-05/04/74 | 0 | 1 | |
| BICA0139 | No | 71900 | MERCURY, TOTAL (UG/L AS HG) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0186 | No | 71900 | MERCURY, TOTAL (UG/L AS HG) | 01/11/77-07/06/77 | 0 | 4 | |
| BICA0199 | No | 71900 | MERCURY, TOTAL (UG/L AS HG) | 03/31/74-07/06/77 | 3 | 6 | |

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Station/Parameter Period of Record Tabulation **From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|---------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0209 | No | 71900 | MERCURY, TOTAL (UG/L AS HG) | 01/12/77-07/14/77 | 0 | 4 | |
| BICA0002 | No | 72000 | ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL) | 10/01/49-09/22/61 | 11 | 218 | |
| BICA0026 | No | 72000 | ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL) | 08/20/58-09/09/62 | 4 | 69 | |
| BICA0034 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/21/75-10/17/75 | 0 | 3 | |
| BICA0049 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0069 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0084 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0128 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0140 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0172 | Yes | 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 0 | 3 | |
| BICA0006 | No | 74010 | IRON, TOTAL (MG/L AS FE) | 02/22/68-08/18/69 | 1 | 38 | |
| BICA0029 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 02/22/68-08/18/69 | 1 | 43 | |
| BICA0039 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 0 | 13 | |
| BICA0066 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 0 | 13 | |
| BICA0075 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 0 | 13 | |
| BICA0099 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 0 | 13 | |
| BICA0132 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 0 | 13 | |
| BICA0174 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 0 | 13 | |
| BICA0177 | Yes | 74010 | IRON, TOTAL (MG/L AS FE) | 02/22/68-08/18/69 | 1 | 45 | |
| BICA0002 | No | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 42 | 327 | T,A,S |
| BICA0019 | No | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 20 | 134 | T |
| BICA0026 | No | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/59-07/02/64 | 4 | 25 | |
| BICA0059 | No | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 07/22/70-06/10/77 | 6 | 17 | |
| BICA0184 | Yes | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 02/11/97-02/11/97 | 0 | 1 | |
| BICA0190 | Yes | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0195 | No | 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0002 | No | 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 26 | 133 | T,S |
| BICA0019 | No | 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 10 | 123 | |
| BICA0026 | No | 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-07/02/64 | 4 | 25 | |
| BICA0059 | No | 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 07/22/70-06/10/77 | 6 | 17 | |
| BICA0002 | No | 80158 | BED MATERIAL FALL DIAMETER, % FINER THAN .062MM | 09/29/70-03/08/77 | 6 | 18 | |
| BICA0002 | No | 80159 | BED MATERIAL FALL DIAMETER, % FINER THAN .125MM | 09/29/70-03/08/77 | 6 | 18 | |
| BICA0002 | No | 80160 | BED MATERIAL FALL DIAMETER, % FINER THAN .250MM | 09/29/70-03/08/77 | 6 | 18 | |
| BICA0002 | No | 80161 | BED MATERIAL FALL DIAMETER, % FINER THAN .500MM | 09/29/70-03/08/77 | 6 | 18 | |
| BICA0002 | No | 80162 | BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM | 09/29/70-03/08/77 | 6 | 18 | |
| BICA0002 | No | 80169 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM | 09/29/70-03/08/77 | 6 | 17 | |
| BICA0002 | No | 80170 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM | 09/29/70-03/08/77 | 6 | 17 | |
| BICA0002 | No | 80171 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM | 09/29/70-03/08/77 | 6 | 17 | |
| BICA0002 | No | 80172 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM | 09/29/70-03/08/77 | 6 | 15 | |
| BICA0002 | No | 80173 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM | 04/13/71-08/11/76 | 5 | 11 | |
| BICA0002 | No | 80174 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM | 08/11/76-08/11/76 | 0 | 1 | |
| BICA0002 | No | 81886 | PERTHANE IN SEDIMENT DRY WEIGHT UG/KG | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0026 | No | 81886 | PERTHANE IN SEDIMENT DRY WEIGHT UG/KG | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0002 | No | 82052 | BANVEL (DICAMBA) WHOLE WATER,UG/L | 06/20/84-08/31/92 | 8 | 34 | |
| BICA0019 | No | 82068 | POTASSIUM 40, DISSOLVED, K-40 PC/LITER | 10/07/80-07/15/81 | 0 | 10 | |
| BICA0180 | Yes | 82068 | POTASSIUM 40, DISSOLVED, K-40 PC/LITER | 10/28/80-06/15/81 | 0 | 10 | |
| BICA0010 | Yes | 82079 | TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 06/09/80-11/26/80 | 0 | 8 | |
| BICA0023 | No | 82079 | TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 06/09/80-11/26/80 | 0 | 9 | |
| BICA0050 | Yes | 82079 | TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 06/09/80-11/26/80 | 0 | 8 | |
| BICA0074 | Yes | 82079 | TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 07/09/80-11/26/80 | 0 | 6 | |
| BICA0002 | No | 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-08/31/92 | 12 | 36 | |
| BICA0026 | No | 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-09/04/80 | 0 | 3 | |
| BICA0097 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0104 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0105 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0107 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/07/78-10/07/78 | 0 | 1 | |
| BICA0116 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0117 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0125 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0126 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0130 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0131 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0133 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/79-10/15/79 | 0 | 1 | |
| BICA0137 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0138 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 0 | 1 | |
| BICA0144 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0146 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0147 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/29/78 | 0 | 2 | |
| BICA0150 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0157 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0160 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0161 | Yes | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 0 | 1 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
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| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|-------------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0166 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0167 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0168 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/14/78-10/14/78 | 0 | 1 | |
| BICA0171 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/17/78-10/17/78 | 0 | 1 | |
| BICA0185 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0187 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0188 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 0 | 1 | |
| BICA0193 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0194 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 0 | 1 | |
| BICA0197 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0198 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0201 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0202 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0203 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0204 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/07/78-11/07/78 | 0 | 1 | |
| BICA0205 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0206 | No | 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 0 | 1 | |
| BICA0002 | No | 82398 | SAMPLING METHOD (CODES) | 11/15/83-04/14/97 | 13 | 95 | |
| BICA0019 | No | 82398 | SAMPLING METHOD (CODES) | 02/16/84-04/14/97 | 13 | 43 | |
| BICA0026 | No | 82398 | SAMPLING METHOD (CODES) | 11/15/83-08/23/89 | 5 | 21 | |
| BICA0002 | No | 82630 | METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82630 | METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82660 | DIETHYLANILINE, 2, 6-, 0.7UM FILT, TOT RECV, WTR UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82660 | DIETHYLANILINE, 2, 6-, 0.7UM FILT, TOT RECV, WTR UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82661 | TRIFLURALINE, 0.7UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82661 | TRIFLURALINE, 0.7UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82663 | ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82663 | ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82664 | PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82664 | PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82665 | TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82665 | TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82666 | LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82666 | LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82667 | METHYL PARATHION, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82667 | METHYL PARATHION, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82668 | EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82668 | EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82669 | PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82669 | PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82670 | TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82670 | TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82671 | MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82671 | MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82672 | ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82672 | ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82673 | BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82673 | BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82674 | CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82674 | CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82675 | TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82675 | TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82676 | PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82676 | PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82677 | DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82677 | DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82678 | TRIALATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82678 | TRIALATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82679 | PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82679 | PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82680 | CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82680 | CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82681 | THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82681 | THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82682 | DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82682 | DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82683 | PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82683 | PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82684 | NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82684 | NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82685 | PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82685 | PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97**

| Station | In Park | Code | Name | Start - End | Years | Obs | Plots ¹ |
|----------|---------|-------|----------------------------------------------------|-------------------|-------|-----|--------------------|
| BICA0002 | No | 82686 | METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82686 | METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0002 | No | 82687 | PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 0 | 2 | |
| BICA0019 | No | 82687 | PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 0 | 2 | |
| BICA0024 | Yes | 84000 | GEOLOGIC AGE CODE (SEE USGS CATALOG) | 09/17/76-09/17/76 | 0 | 1 | |
| BICA0064 | No | 84000 | GEOLOGIC AGE CODE (SEE USGS CATALOG) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0190 | Yes | 84000 | GEOLOGIC AGE CODE (SEE USGS CATALOG) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0024 | Yes | 84001 | AQUIFER NAME CODE (SEE USGS CATALOG) | 09/17/76-09/17/76 | 0 | 1 | |
| BICA0064 | No | 84001 | AQUIFER NAME CODE (SEE USGS CATALOG) | 07/26/88-07/26/88 | 0 | 1 | |
| BICA0190 | Yes | 84001 | AQUIFER NAME CODE (SEE USGS CATALOG) | 02/10/97-02/10/97 | 0 | 1 | |
| BICA0073 | Yes | 85334 | TEMPERATURE-DEG F, MINIMUM WATER | 04/04/86-09/30/87 | 1 | 430 | |
| BICA0073 | Yes | 85335 | TEMPERATURE- DEG F , MAXIMUM WATER | 04/04/86-09/29/87 | 1 | 429 | |

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station-By-Station Results

Station Inventory for Station: BICA0001

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0001 Location: BIGHORN RIVER SOUTH OF KANE WY Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Kane WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516). | LAT/LON: 44.750005/-108.183337 Depth of Water: 0 Elevation: 3675 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_WRDS_3 /82100102:1 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/01/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0001

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/26/73-11/07/74 | 9 | 13. | 13.222 | 26. | 1. | 77.694 | 8.814 | 1. | 5. | 21. | 26. |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 04/17/73-09/20/73 | 3 | 2120. | 2900. | 5410. | 1170. | 4950700. | 2225.017 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 02/26/73-12/11/74 | 11 | 9.5 | 9.745 | 12.5 | 7.7 | 1.945 | 1.395 | 7.86 | 8.7 | 10.8 | 12.3 |
| 00400 PH (STANDARD UNITS) | 02/26/73-12/11/74 | 11 | 8.3 | 8.309 | 8.6 | 7.8 | 0.043 | 0.207 | 7.88 | 8.2 | 8.4 | 8.58 |
| 00400 CONVERTED PH (STANDARD UNITS) | 02/26/73-12/11/74 | 11 | 8.3 | 8.255 | 8.6 | 7.8 | 0.046 | 0.215 | 7.88 | 8.2 | 8.4 | 8.58 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/26/73-12/11/74 | 11 | 0.005 | 0.006 | 0.016 | 0.003 | 0. | 0.004 | 0.003 | 0.004 | 0.006 | 0.014 |
| 00411 ALKALINITY,METHYLORANGE MG/L | 02/26/73-12/11/74 | 11 | 185. | 190.818 | 290. | 131. | 1952.964 | 44.192 | 134.6 | 150. | 212. | 276.8 |
| 00415 ALKALINITY, PHENOLPHTHALEIN (MG/L) | 02/26/73-12/11/74 | 11 | 12. | 14.364 | 28. | 0. | 66.055 | 8.127 | 1.6 | 10. | 22. | 27.2 |
| 00653 PHOSPHATE, TOTAL SOLUBLE (MG/L) | 12/05/73-12/11/74 | 5 | 0.06 | 0.062 | 0.1 | 0.02 | 0.001 | 0.03 | ** | ** | ** | ** |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 02/26/73-04/19/74 | 4 | 0.045 | 0.053 | 0.1 | 0.02 | 0.001 | 0.034 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 02/26/73-12/11/74 | 9 | 72. | 73.811 | 86.4 | 59.5 | 70.721 | 8.41 | 59.5 | 68.8 | 81.6 | 86.4 |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 02/26/73-12/11/74 | 9 | 26.2 | 24.422 | 31.5 | 13.1 | 32.029 | 5.659 | 13.1 | 20.7 | 28.1 | 31.5 |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 02/26/73-12/11/74 | 9 | 77. | 80.378 | 104. | 58. | 207.684 | 14.411 | 58. | 72.2 | 93. | 104. |
| 00931 SODIUM ADSORPTION RATIO | 02/26/73-12/11/74 | 9 | 1.9 | 2.067 | 2.8 | 1.6 | 0.125 | 0.354 | 1.6 | 1.9 | 2.3 | 2.8 |
| 00932 SODIUM, PERCENT | 02/26/73-12/11/74 | 9 | 37. | 37.778 | 46. | 33. | 14.694 | 3.833 | 33. | 35.5 | 40. | 46. |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 02/26/73-12/11/74 | 9 | 4.24 | 4.076 | 4.8 | 3.4 | 0.297 | 0.545 | 3.4 | 3.42 | 4.54 | 4.8 |
| 00940 CHLORIDE,TOTAL IN WATER MG/L | 02/26/73-12/11/74 | 10 | 14.5 | 14.5 | 20. | 10. | 7.833 | 2.799 | 10.2 | 12.75 | 16.25 | 19.7 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 02/26/73-12/11/74 | 9 | 297. | 287.444 | 346. | 237. | 1688.278 | 41.089 | 237. | 247. | 321. | 346. |
| 00955 SILICA, DISSOLVED (MG/L AS SI02) | 02/26/73-12/05/73 | 5 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0001

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|------|--------|-------|---------|---------|-----------|-----------|-------|--------|--------|-------|
| 01000 ARSENIC, DISSOLVED (UG/L AS AS) | 02/26/73-12/05/73 | 5 | 4. | 3.8 | 5. | 2. | 1.2 | 1.095 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 02/26/73-12/05/73 | 5 | 235. | 204. | 245. | 150. | 2442.5 | 49.422 | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 02/26/73-12/05/73 | 5 | 2. | 1.2 | 2. | 0. | 1.2 | 1.095 | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 02/26/73-12/05/73 | 5 | 0.03 | 3.208 | 8. | 0. | 19.136 | 4.374 | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 02/26/73-12/05/73 | 5 | 0.7 | 0.62 | 0.7 | 0.5 | 0.012 | 0.11 | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 02/26/73-12/05/73 | 5 ## | 0. | 2.8 | 8. | 0. | 15.2 | 3.899 | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 02/26/73-12/05/73 | 5 | 18. | 17.2 | 32. | 6. | 113.2 | 10.64 | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 02/26/73-12/05/73 | 5 | 6. | 6. | 9. | 2. | 6.5 | 2.55 | ** | ** | ** | ** |
| 01145 SELENIUM, DISSOLVED (UG/L AS SE) | 02/26/73-12/05/73 | 5 | 3. | 2.7 | 3. | 1.5 | 0.45 | 0.671 | ** | ** | ** | ** |
| 70299 SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L) | 02/26/73-12/11/74 | 10 | 188.5 | 286.9 | 759. | 54. | 51258.544 | 226.403 | 57.5 | 103.25 | 446. | 728.3 |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 02/26/73-12/11/74 | 10 | 667.5 | 651.2 | 731. | 569. | 3816.4 | 61.777 | 569.4 | 582. | 711.25 | 729.1 |
| 71846 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 02/26/73-12/05/73 | 5 | 0.09 | 0.088 | 0.11 | 0.05 | 0.001 | 0.025 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 02/26/73-12/11/74 | 9 | 0.1 | 0.138 | 0.2 | 0.04 | 0.004 | 0.062 | 0.04 | 0.1 | 0.2 | 0.2 |
| 71890 MERCURY, DISSOLVED (UG/L AS HG) | 02/26/73-12/05/73 | 5 | 1.2 | 2.528 | 6.2 | 0.04 | 8.242 | 2.871 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0001

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00400 PH | Fresh Chronic | 9. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 9 | 7 | 0.78 | 6 | 5 | 0.83 | 1 | 1 | 1.00 | 2 | 1 | 0.50 | | | |
| 01000 ARSENIC, DISSOLVED | Fresh Acute | 360. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 15. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01145 SELENIUM, DISSOLVED | Fresh Acute | 20. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 71890 MERCURY, DISSOLVED | Fresh Acute | 2.4 | 5 | 2 | 0.40 | 3 | 2 | 0.67 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 5 | 2 | 0.40 | 3 | 2 | 0.67 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0002

NPS Station ID: BICA0002
 Location: BIGHORN R AT KANE WYO
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes: 1021500 009490 36810 4430
 RMI-Miles: 1149.40 1582.00 279.40 150.00
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010
 RF3 Index: 10080010005400.00
 Description:
 NW1/4NE1/4 SEC 9 T55N R94W 1.3 MILES UPSTREAM FR FIVE SPRINGS CR AND 61/2 MILES SOUTH OF KANE WYO
 4445000 10812000

LAT/LON: 44.758615/-108.180838

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.33

Agency: 112WRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 06279500
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.11

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|------|--------|----------|---------|---------|------------|-----------|-------|---------|---------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 424 | 12. | 11.207 | 26.5 | 0. | 59.019 | 7.682 | 0. | 4.5 | 17.5 | 21.05 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 164 | 16.6 | 15.141 | 42. | -18. | 132.471 | 11.51 | 5. | 7.375 | 24.5 | 31.75 |
| 00025 BAROMETRIC PRESSURE (MM OF HG) | 02/16/84-04/14/97 | 31 | 668. | 672.097 | 760. | 644. | 359.69 | 18.966 | 660. | 662. | 678. | 684.8 |
| 00060p FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 490 | 2010. | 2602.167 | 20200. | 370. | 5307724.88 | 2303.85 | 888.1 | 1372.25 | 2773.25 | 5035.1 |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 413 | 1910. | 2749.291 | 20700. | 598. | 6508693.93 | 2551.214 | 905.4 | 1355. | 2880. | 5870. |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 78 | 30. | 196.494 | 3900. | 1. | 273532.834 | 523.004 | 2. | 6. | 100. | 650. |
| 00075 TURBIDITY, HELIGE (PPM AS SILICON DIOXIDE) | 11/19/69-06/30/70 | 3 | 27. | 120. | 315. | 18. | 28539. | 168.935 | ** | ** | ** | ** |
| 00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 09/04/80-12/17/80 | 3 | 280. | 940. | 2400. | 140. | 1603600. | 1266.333 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 146 | 5. | 5.322 | 18. | 0. | 6.413 | 2.532 | 3. | 4. | 6. | 8. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 664 | 950. | 949.547 | 3030. | 355. | 58192.022 | 241.23 | 610.5 | 814.25 | 1100. | 1210. |
| 00300p OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 122 | 9.85 | 9.916 | 14. | 6.6 | 2.659 | 1.631 | 7.8 | 8.6 | 11.2 | 12. |
| 00310 BOD, 5 DAY, 20 DEG C MG/L | 11/19/69-10/31/73 | 6 | 2.05 | 2.267 | 4.4 | 1.1 | 1.435 | 1.198 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 514 | 7.8 | 7.86 | 9.7 | 6.8 | 0.126 | 0.355 | 7.4 | 7.6 | 8.1 | 8.3 |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 514 | 7.8 | 7.719 | 9.7 | 6.8 | 0.146 | 0.382 | 7.4 | 7.6 | 8.1 | 8.3 |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 514 | 0.016 | 0.019 | 0.158 | 0. | 0. | 0.018 | 0.005 | 0.008 | 0.025 | 0.04 |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 70 | 8.1 | 8.071 | 8.7 | 7.4 | 0.057 | 0.24 | 7.71 | 7.9 | 8.225 | 8.4 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 70 | 8.1 | 8.005 | 8.7 | 7.4 | 0.062 | 0.249 | 7.71 | 7.9 | 8.225 | 8.4 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 70 | 0.008 | 0.01 | 0.04 | 0.002 | 0. | 0.006 | 0.004 | 0.006 | 0.013 | 0.02 |
| 00405 CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 78 | 2.1 | 2.9 | 10. | 0.1 | 4.68 | 2.163 | 1. | 1.5 | 3.5 | 7.21 |
| 00410p ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 330 | 167. | 164.991 | 250. | 82. | 887.632 | 29.793 | 124.1 | 150. | 183.25 | 200. |
| 00440p BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 481 | 205. | 202.233 | 303. | 100. | 1250.258 | 35.359 | 153. | 183. | 226. | 240. |
| 00445p CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 406 | 0. | 0.266 | 18. | 0. | 2.566 | 1.602 | 0. | 0. | 0. | 0. |
| 00600 NITROGEN, TOTAL (MG/L AS N) | 11/20/80-08/13/85 | 26 | 1.05 | 2.024 | 15. | 0.63 | 8.657 | 2.942 | 0.682 | 0.815 | 1.625 | 4.67 |
| 00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 11/20/80-08/13/85 | 22 | 0.75 | 1.708 | 14. | 0.3 | 9.044 | 3.007 | 0.404 | 0.528 | 1.11 | 5.05 |
| 00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 03/03/70-06/23/81 | 3 | 0.02 | 0.073 | 0.2 | 0. | 0.012 | 0.11 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/20/80-07/28/89 | 58 | 0.07 | 0.12 | 1.8 | 0.005 | 0.059 | 0.244 | 0.02 | 0.03 | 0.12 | 0.163 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/08/82-02/08/82 | 1 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 85 | 0.32 | 0.432 | 2.5 | 0. | 0.18 | 0.424 | 0.102 | 0.18 | 0.54 | 0.798 |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/20/80-07/28/89 | 59 | 0.7 | 1.579 | 19. | 0.2 | 9.185 | 3.031 | 0.4 | 0.6 | 1.1 | 3.4 |
| 00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N) | 11/20/80-07/28/89 | 58 | 0.3 | 0.423 | 1.5 | 0.1 | 0.096 | 0.31 | 0.139 | 0.2 | 0.593 | 0.91 |
| 00631 NITRITE PLUS NITRATE, DISS. I DET. (MG/L AS N) | 10/04/79-06/06/86 | 70 | 0.3 | 0.46 | 2.4 | 0. | 0.185 | 0.43 | 0.2 | 0.2 | 0.5 | 0.88 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 11/19/69-11/19/69 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 158 | 0.075 | 0.253 | 9.5 | 0. | 0.884 | 0.94 | 0.01 | 0.03 | 0.15 | 0.371 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|-----------------------------------------------------|-------------------|--------|-------|----------|---------|----------|--------------|----------|-------|--------|--------|-------|
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 11/19/69-06/30/70 | 3 | 0.01 | 0.01 | 0.02 | 0. | 0.01 | ** | ** | ** | ** | |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 503 | 310. | 313.509 | 1450. | 119. | 7986.43 | 89.367 | 202.2 | 270. | 356. | 402.4 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 480 | 141. | 148.231 | 1280. | 16. | 5078.295 | 71.262 | 82.1 | 117.25 | 173.75 | 210. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 544 | 81. | 82.017 | 482. | 3. | 700.705 | 26.471 | 55.5 | 70. | 92. | 103.5 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 544 | 27. | 26.265 | 60. | 0.2 | 65.992 | 8.124 | 15. | 22. | 31. | 36. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 527 | 89. | 91.198 | 281. | 5.8 | 867.919 | 29.46 | 54. | 75. | 108. | 127. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 463 | 2.2 | 2.212 | 5.2 | 0.1 | 0.281 | 0.53 | 1.6 | 1.9 | 2.5 | 2.9 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 347 | 38. | 37.755 | 61. | 4. | 21.775 | 4.666 | 34. | 36. | 40. | 42. |
| 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 12/01/49-06/02/51 | 19 | 99. | 92.632 | 156. | 30. | 917.801 | 30.295 | 36. | 77. | 112. | 120. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 474 | 3.7 | 3.86 | 13. | 0.3 | 1.435 | 1.198 | 2.6 | 3.2 | 4.4 | 5.05 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 524 | 15. | 14.735 | 40. | 1. | 31.262 | 5.591 | 7. | 11. | 18. | 21. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 525 | 308. | 312.074 | 1770. | 85. | 13420.286 | 115.846 | 175.2 | 256. | 362.5 | 441.4 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 497 | 0.4 | 0.465 | 2.5 | 0.1 | 0.036 | 0.189 | 0.3 | 0.4 | 0.5 | 0.62 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 508 | 10. | 10.491 | 35. | 0.05 | 9.7 | 3.115 | 7.6 | 9. | 11. | 14. |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 10/01/70-03/14/91 | 24 | 1. | 3.979 | 60. | 0. | 144.967 | 12.04 | 0.25 | 0.5 | 2. | 6. |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 10/01/70-03/14/91 | 20 | 54.5 | 55.45 | 68. | 39. | 53.418 | 7.309 | 45.5 | 50.25 | 59.75 | 66. |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/01/70-03/14/91 | 19 ## | 0.25 | 0.329 | 1.5 | 0. | 0.16 | 0.4 | 0. | 0. | 0.25 | 1. |
| 01015 | BISMUTH, DISSOLVED (UG/L AS BI) | 10/01/70-04/13/71 | 3 ## | 6. | 5.833 | 7.5 | 4. | 3.083 | 1.756 | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 366 | 110. | 114.836 | 370. | 0. | 2141.754 | 46.279 | 60. | 90. | 140. | 170. |
| 01022 | BORON, TOTAL (UG/L AS B) | 06/27/50-06/27/50 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 10/01/70-03/14/91 | 23 ## | 0.5 | 0.783 | 3. | 0. | 0.678 | 0.823 | 0. | 0.5 | 1. | 2.6 |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/01/70-03/14/91 | 25 ## | 2.5 | 2.44 | 7.5 | 0. | 2.569 | 1.603 | 0.5 | 1.5 | 2.5 | 4.8 |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/01/70-03/14/91 | 14 ## | 1.5 | 1.964 | 4.5 | 1.5 | 1.018 | 1.009 | 1.5 | 1.5 | 1.75 | 4.25 |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/01/70-03/14/91 | 25 | 5. | 4.44 | 9. | 1. | 2.09 | 1.446 | 2.6 | 4. | 5. | 5. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 03/26/47-09/15/71 | 95 | 10. | 28.284 | 220. | 0. | 1882.227 | 43.385 | 0. | 0. | 40. | 72. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/26/71-03/14/91 | 44 | 65. | 83.318 | 400. | 0. | 6996.92 | 83.648 | 8.5 | 20.25 | 107.5 | 210. |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 10/01/70-03/14/91 | 25 ## | 5. | 3.86 | 10. | 0.5 | 5.74 | 2.396 | 0.5 | 1.5 | 5. | 6.6 |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/01/70-03/14/91 | 24 | 9. | 10.833 | 30. | 0. | 75.797 | 8.706 | 1. | 5. | 17.5 | 27.5 |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/01/70-08/30/89 | 17 ## | 5. | 4.029 | 10. | 0. | 5.827 | 2.414 | 0. | 2.25 | 5. | 6. |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/01/70-08/30/89 | 16 ## | 5. | 5.469 | 12. | 1. | 9.982 | 3.159 | 1. | 5. | 6.875 | 10.6 |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/01/70-03/14/91 | 23 ## | 0.5 | 0.75 | 3. | 0. | 0.483 | 0.695 | 0.1 | 0.5 | 1. | 2. |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/01/70-03/14/91 | 14 | 935. | 920.714 | 1200. | 490. | 43191.758 | 207.826 | 570. | 802.5 | 1050. | 1200. |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/01/70-08/30/89 | 13 ## | 3. | 3.538 | 7.5 | 2.5 | 2.144 | 1.464 | 2.7 | 3. | 3. | 6.9 |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/01/70-03/14/91 | 22 | 19.5 | 22.455 | 130. | 4. | 672.831 | 25.939 | 7. | 7.75 | 24.75 | 38.2 |
| 01100 | TIN, DISSOLVED (UG/L AS SN) | 10/01/70-04/13/71 | 3 ## | 6. | 5.833 | 7.5 | 4. | 3.083 | 1.756 | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/01/70-03/14/91 | 11 | 20. | 56.909 | 370. | 10. | 11067.491 | 105.202 | 12. | 20. | 32. | 310.8 |
| 01120 | GALLIUM, DISSOLVED (UG/L AS GA) | 10/01/70-04/13/71 | 3 ## | 2.5 | 2.833 | 6. | 0. | 9.083 | 3.014 | ** | ** | ** | ** |
| 01125 | GERMANIUM, DISSOLVED (UG/L AS GE) | 10/01/70-04/13/71 | 3 ## | 6. | 6.167 | 7.5 | 5. | 1.583 | 1.258 | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/01/70-03/14/91 | 14 | 46.5 | 44.071 | 72. | 19. | 226.225 | 15.041 | 21. | 34.25 | 50.5 | 69.5 |
| 01135 | RUBIDIUM, DISSOLVED (UG/L AS RB) | 10/01/70-04/13/71 | 3 | 2.5 | 2.833 | 4. | 2. | 1.083 | 1.041 | ** | ** | ** | ** |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 11/04/87-03/14/91 | 19 | 2. | 2.026 | 3. | 0.5 | 0.569 | 0.754 | 1. | 2. | 3. | 3. |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/01/70-04/13/71 | 3 ## | 6. | 5.833 | 7. | 4.5 | 1.583 | 1.258 | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/01/70-04/13/71 | 3 ## | 6. | 6.167 | 12.5 | 0. | 39.083 | 6.252 | ** | ** | ** | ** |
| 04024 | PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 04028 | BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 04029 | BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 04035 | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 04037 | PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 1 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** | ** |
| 04041 | CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 04091 | CLOPYRALID, TOTAL RECOVERABLE, WATER UG/L | 08/08/91-08/31/92 | 2 ## | 0.018 | 0.018 | 0.03 | 0.005 | 0. | 0.018 | ** | ** | ** | ** |
| 04095 | FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 31501 | COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 08/29/69-10/31/73 | 11 | 1400. | 1957.727 | 6900. | 258. | 4190497.618 | 2047.07 | 268.8 | 475. | 2900. | 6320. |
| 31501 | LOG COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED, | 08/29/69-10/31/73 | 11 | 3.146 | 3.067 | 3.839 | 2.412 | 0.23 | 0.48 | 2.428 | 2.677 | 3.462 | 3.791 |
| 31501 | GM COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,3 | GEOMETRIC MEAN = | | | 1167.366 | | | | | | | | |
| 31616 | FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 07/19/72-09/04/76 | 38 | 110. | 963.474 | 31000. | 4. | 25065255.067 | 5006.521 | 18.4 | 50.75 | 210. | 432. |
| 31616 | LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 07/19/72-09/04/76 | 38 | 2.041 | 2.011 | 4.491 | 0.602 | 0.425 | 0.652 | 1.262 | 1.697 | 2.321 | 2.634 |
| 31616 | GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | GEOMETRIC MEAN = | | | 102.601 | | | | | | | | |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 84 | 148.5 | 454.089 | 13300. | 0. | 2383663.091 | 1543.912 | 24. | 76.25 | 270. | 585. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 84 | 2.172 | 2.12 | 4.124 | -0.301 | 0.477 | 0.691 | 1.38 | 1.882 | 2.431 | 2.767 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 131.876 | | | | | | | | |
| 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 11/01/65-09/21/66 | 30 | 7350. | 6093.333 | 8100. | 3000. | 4190988.506 | 2047.19 | 3000. | 3750. | 7725. | 8000. |
| 34253 | A-BHC-ALPHA DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 34609 | 2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|-------|------|-------|-------|
| 34653 | P,P'-DDE DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** |
| 38442 | DICAMBA (BANVEL) WATER,DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 38478 | LINURON WATER,DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** |
| 38482 | MCPA WATER,DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** |
| 38487 | MCPB WATER,DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 38501 | METHIOCARB WATER,DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.013 | 0.013 | 0.013 | 0.013 | 0. | 0. | ** | ** | ** |
| 38538 | PROPOXUR WATER,DISSUG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 38711 | BENTAZON WATER, DISUG/L | 03/26/96-07/30/96 | 2 ## | 0.007 | 0.007 | 0.007 | 0.007 | 0. | 0. | ** | ** | ** |
| 38746 | 2,4-DB WATER, DISUG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 38811 | FLUOMETURON WATER, DISUG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 38866 | OXAMYL WATER, DISUG/L | 03/26/96-07/30/96 | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** |
| 38933 | CHLORPYRIFOS,DISSOLVED UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 39034 | PERTHANE IN WHOLE WATER SAMPLE (UG/L) | 10/25/78-09/04/80 | 5 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39250 | NAPTHALENES, POLYCHLORINATED (UG/L) | 09/23/76-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39251 | PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39331 | ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39332 | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39333 | ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0. | 0.053 | 0.4 | 0.011 | 0.106 | 0. | 0. | 0.1 | 0.22 |
| 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39341 | GAMMA-BHC(LINDANE),DISSOLVED,UG/L | 09/07/71-07/30/96 | 11 | 0. | 0. | 0.002 | 0. | 0.001 | 0. | 0. | 0. | 0.002 |
| 39342 | GAMMA-BHC(LINDANE),SUSPENDED,UG/L | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39343 | GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG | 09/07/71-09/04/80 | 15 | 0. | 0.033 | 0.1 | 0.002 | 0.049 | 0. | 0. | 0.1 | 0.1 |
| 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39351 | CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG | 09/07/71-09/04/80 | 15 | 0. | 0.2 | 1. | 0.1 | 0.316 | 0. | 0. | 0.5 | 0.7 |
| 39352 | CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39353 | CHLORDANE(TECH MIX & METABS),SUSPENDED,UG/L | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39361 | DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39362 | DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39363 | DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0. | 0.047 | 0.1 | 0.003 | 0.052 | 0. | 0. | 0.1 | 0.1 |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0.001 | 0.01 | 0. | 0.002 | 0. | 0. | 0. | 0.002 |
| 39366 | DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39367 | DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0.001 | 0.01 | 0. | 0.003 | 0. | 0. | 0. | 0.01 |
| 39368 | DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0.1 | 0.06 | 0.2 | 0.004 | 0.063 | 0. | 0. | 0.1 | 0.14 |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39371 | DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39372 | DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39373 | DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0. | 0.04 | 0.2 | 0.004 | 0.063 | 0. | 0. | 0.1 | 0.14 |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0.001 | 0.01 | 0. | 0.003 | 0. | 0. | 0. | 0.01 |
| 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0. | 0.002 | 0.01 | 0. | 0.004 | 0. | 0. | 0.001 | 0.01 |
| 39382 | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39383 | DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/07/71-09/04/80 | 15 | 0.2 | 1.493 | 8. | 8.236 | 2.87 | 0. | 0.1 | 0.4 | 8. |
| 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L) | 10/19/77-09/04/80 | 7 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39389 | ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39391 | ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39392 | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39393 | ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0. | 0.033 | 0.1 | 0.002 | 0.049 | 0. | 0. | 0.1 | 0.1 |
| 39398 | ETHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 8 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 8 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39403 | TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39411 | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39412 | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39413 | HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0. | 0.027 | 0.1 | 0.002 | 0.046 | 0. | 0. | 0.1 | 0.1 |
| 39415 | METOLACHLOR, WATER, DISSOLVED UG/L | 03/26/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.005 | 0.001 | 0. | 0.003 | ** | ** | ** |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39421 | HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39422 | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39423 | HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.) | 09/07/71-09/04/80 | 15 | 0. | 0.033 | 0.1 | 0.002 | 0.049 | 0. | 0. | 0.1 | 0.1 |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39481 | METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|-------|-------|-------|-------|
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39517 | PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39518 | PCBS IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39519 | PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 09/07/71-09/04/80 | 15 | 0. | 0.533 | 2. | 0. | 0.41 | 0.64 | 0. | 1. | 1.4 |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 15 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39532 | MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0. | 0. | 0.003 | 0. | 0. | 0.001 | 0. | 0. | 0.003 |
| 39533 | MALATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 15 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0. | 0. | 0.002 | 0. | 0. | 0.001 | 0. | 0. | 0.002 |
| 39543 | PARATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 15 | 0. | 0.013 | 0.11 | 0. | 0.001 | 0.028 | 0. | 0. | 0.056 |
| 39572 | DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0.01 | 0.008 | 0.02 | 0. | 0. | 0.009 | 0. | 0.02 | 0.02 |
| 39573 | DIAZINON IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 7 | 0. | 0.001 | 0.01 | 0. | 0. | 0.004 | ** | ** | ** |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 15 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39602 | METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39603 | METHYL PARATHION IN SUSP. FRAC. WATER SAMP.(UG/L) | 09/07/71-08/01/73 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39632 | ATRAZINE DISSOLVED IN WATER PPB | 03/26/96-07/30/96 | 2 | 0.014 | 0.014 | 0.02 | 0.007 | 0. | 0.009 | ** | ** | ** |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE (UG/L) | 06/20/84-08/31/92 | 34 | 0.01 | 0.011 | 0.03 | 0.005 | 0. | 0.007 | 0.005 | 0.005 | 0.02 |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 51 | 0.04 | 0.059 | 0.46 | 0. | 0.006 | 0.077 | 0.005 | 0.02 | 0.1 |
| 39731 | 2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0.03 | 0.039 | 0.1 | 0. | 0.001 | 0.028 | 0.004 | 0.018 | 0.094 |
| 39733 | 2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 51 ## | 0.005 | 0.004 | 0.01 | 0. | 0. | 0.003 | 0. | 0.005 | 0.005 |
| 39741 | 2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39742 | 2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0. | 0.003 | 0.018 | 0. | 0. | 0.007 | 0. | 0. | 0.018 |
| 39743 | 2,4,5-T IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39755 | MIREX, TOTAL (UG/L) | 10/25/78-09/04/80 | 5 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39758 | MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 51 ## | 0.005 | 0.003 | 0.005 | 0. | 0. | 0.002 | 0. | 0.005 | 0.005 |
| 39761 | SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-07/30/96 | 11 | 0. | 0.002 | 0.011 | 0. | 0. | 0.004 | 0. | 0. | 0.011 |
| 39763 | SILVEX IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 09/07/71-08/01/73 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39786 | TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 8 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 39790 | METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 8 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 46342 | ALACHLOR (LASSO), WATER, DISSOLVED UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 49235 | TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** |
| 49236 | PROPHAM, RECOVERABLE, WATER,FILTER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49260 | ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 49291 | PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** |
| 49292 | ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 49293 | NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.012 | 0.012 | 0.012 | 0.012 | 0. | 0. | ** | ** | ** |
| 49294 | NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** |
| 49295 | NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** |
| 49296 | METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** |
| 49297 | FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.007 | 0.007 | 0.007 | 0.007 | 0. | 0. | ** | ** | ** |
| 49298 | ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 49299 | CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49300 | DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L | 03/26/96-07/30/96 | 1 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 49301 | DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49302 | DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** |
| 49303 | DICHOLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 49304 | DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** |
| 49305 | CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** |
| 49306 | CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49307 | AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** |
| 49308 | HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.007 | 0.007 | 0.007 | 0.007 | 0. | 0. | ** | ** | ** |
| 49309 | CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.014 | 0.014 | 0.014 | 0.014 | 0. | 0. | ** | ** | ** |
| 49310 | CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** |
| 49311 | BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49312 | ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** |
| 49313 | ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** |
| 49314 | ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.011 | 0.011 | 0.011 | 0.011 | 0. | 0. | ** | ** | ** |
| 49315 | ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/26/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------------|-------------------|-------|---------|----------|---------|--------------------|--------------|-----------|---------|--------|--------|-------|
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 412 | 667.5 | 680.527 | 3380. | 234. | 62050.994 | 249.1 | 407.2 | 560. | 779.5 | 893.7 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 211 | 622. | 622.033 | 1050. | 250. | 19657.347 | 140.205 | 451.8 | 549. | 690. | 796. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 516 | 3315.01 | 3938.222 | 29800. | 1110.01 | 6858116.183 | 2618.801 | 2037.01 | 2642.5 | 4310. | 6018. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 517 | 0.89 | 0.913 | 4.6 | 0.32 | 0.1 | 0.317 | 0.568 | 0.765 | 1.04 | 1.21 |
| 70326 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM | 10/07/49-07/23/51 | 15 | 3. | 6.267 | 34. | 1. | 67.352 | 8.207 | 1. | 3. | 7. | 20.2 |
| 70327 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM | 10/07/49-07/23/51 | 18 | 7. | 9.056 | 41. | 1. | 82.761 | 9.097 | 1. | 4. | 11.25 | 18.5 |
| 70328 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM | 10/07/49-07/23/51 | 19 | 23. | 23.158 | 50. | 2. | 217.474 | 14.747 | 4. | 10. | 34. | 49. |
| 70329 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM | 10/07/49-07/23/51 | 19 | 44. | 46.526 | 83. | 10. | 459.041 | 21.425 | 16. | 29. | 64. | 83. |
| 70330 | SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM | 10/07/49-07/23/51 | 18 | 54.5 | 54.778 | 92. | 14. | 462.183 | 21.498 | 22.1 | 39. | 71.5 | 80.3 |
| 70331p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 125 | 76. | 73.032 | 99. | 20. | 323.596 | 17.989 | 46. | 63.5 | 87. | 95. |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 100 | 85. | 81.91 | 100. | 38. | 215.214 | 14.67 | 58. | 78. | 92. | 97.9 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 96 | 98. | 96.063 | 100. | 70. | 28.754 | 5.362 | 90. | 95.25 | 99. | 100. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 85 | 100. | 99.106 | 100. | 76. | 10.81 | 3.288 | 98. | 100. | 100. | 100. |
| 70335 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM | 06/22/50-06/10/60 | 2 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 70337 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/49-06/12/91 | 29 | 23. | 25.172 | 62. | 4. | 212.648 | 14.582 | 8. | 13. | 36. | 44. |
| 70338p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 154 | 38. | 40.981 | 85. | 7. | 393.091 | 19.827 | 17. | 24.75 | 56.25 | 71. |
| 70339 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM | 10/01/49-06/12/91 | 36 | 40.5 | 42.667 | 82. | 10. | 487.829 | 22.087 | 16. | 20. | 62.25 | 75.3 |
| 70340p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 155 | 53. | 55.987 | 97. | 12. | 529.584 | 23.013 | 25. | 38. | 75. | 90.4 |
| 70341 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM | 10/01/49-06/12/91 | 29 | 54. | 52.793 | 90. | 15. | 448.67 | 21.182 | 27. | 33.5 | 70. | 86. |
| 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-06/12/91 | 69 | 82. | 80.638 | 100. | 37. | 232.352 | 15.243 | 58. | 70. | 95. | 98. |
| 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-06/12/91 | 67 | 92. | 89.642 | 100. | 56. | 85.718 | 9.258 | 78. | 86. | 97. | 98. |
| 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-06/12/91 | 66 | 99. | 98.167 | 100. | 83. | 7.249 | 2.692 | 94.7 | 97.75 | 100. | 100. |
| 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-06/12/91 | 44 | 100. | 99.864 | 100. | 98. | 0.167 | 0.409 | 99. | 100. | 100. | 100. |
| 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 06/10/60-05/02/78 | 5 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 02/08/82-02/08/82 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH4) | 11/20/80-01/05/81 | 3 | 0.02 | 0.037 | 0.08 | 0.01 | 0.001 | 0.038 | ** | ** | ** | ** |
| 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 10/01/64-06/23/81 | 29 | 1.6 | 1.501 | 2.1 | 0.03 | 0.152 | 0.39 | 1.1 | 1.25 | 1.7 | 1.8 |
| 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 12/01/49-09/22/61 | 70 | 1.3 | 1.686 | 5.8 | 0. | 1.758 | 1.326 | 0.21 | 0.7 | 2.525 | 3.67 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 428 | 1.1 | 1.731 | 150. | 0. | 53.096 | 7.287 | 0.3 | 0.6 | 1.8 | 2.8 |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 10/01/64-09/19/65 | 27 | 6. | 5.481 | 9. | 1. | 6.49 | 2.548 | 1.8 | 4. | 8. | 9. |
| 71870 | BROMIDE (MG/L AS BR) | 10/01/63-09/19/65 | 53 | 0.38 | 0.375 | 0.42 | 0.29 | 0.001 | 0.027 | 0.328 | 0.365 | 0.39 | 0.4 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 135 | 0. | 7.852 | 70. | 0. | 200.575 | 14.162 | 0. | 0. | 10. | 20. |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 11/20/80-10/15/85 | 36 | 0.215 | 1.209 | 19. | 0.06 | 13.268 | 3.643 | 0.081 | 0.12 | 0.58 | 1.454 |
| 71887 | NITROGEN, TOTAL, AS NO3 - MG/L | 11/20/80-08/13/85 | 26 | 4.7 | 9. | 67. | 2.8 | 173.339 | 13.166 | 3.01 | 3.575 | 7.25 | 20.9 |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 11/04/87-03/14/91 | 17 | 0.1 | 0.171 | 0.6 | 0.05 | 0.029 | 0.17 | 0.05 | 0.05 | 0.2 | 0.52 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 327 | 757. | 2483.367 | 28900. | 12. | 19178588.129 | 4379.336 | 85.8 | 185. | 2640. | 6580. |
| 80155p | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 133 | 2110. | 29519.18 | 867000. | 49.10611498723.104 | 103012.129 | 281.6 | 766. | 15900. | 55420. | |
| 80158 | BED MATERIAL FALL DIAMETER, % FINER THAN .062MM | 09/29/70-03/08/77 | 18 | 1. | 1.006 | 5. | 0.1 | 1.208 | 1.099 | 0.19 | 0.3 | 1. | 2.3 |
| 80159 | BED MATERIAL FALL DIAMETER, % FINER THAN .125MM | 09/29/70-03/08/77 | 18 | 1. | 2.072 | 14. | 0.3 | 9.517 | 3.085 | 0.93 | 1. | 2. | 5. |
| 80160 | BED MATERIAL FALL DIAMETER, % FINER THAN .250MM | 09/29/70-03/08/77 | 18 | 17.5 | 19.778 | 76. | 2. | 299.359 | 17.302 | 3.8 | 7.5 | 25.25 | 40.9 |
| 80161 | BED MATERIAL FALL DIAMETER, % FINER THAN .500MM | 09/29/70-03/08/77 | 18 | 64.5 | 57.111 | 91. | 13. | 857.163 | 29.277 | 20.2 | 26.25 | 85. | 90.1 |
| 80162 | BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM | 09/29/70-03/08/77 | 18 | 75. | 66.111 | 100. | 16. | 839.516 | 28.974 | 27.7 | 35.5 | 90.5 | 98.2 |
| 80169 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM | 09/29/70-03/08/77 | 17 | 74. | 66.176 | 98. | 17. | 794.279 | 28.183 | 29. | 37.5 | 92. | 96.4 |
| 80170 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM | 09/29/70-03/08/77 | 17 | 87. | 69.235 | 99. | 21. | 787.566 | 28.064 | 32.2 | 38. | 95. | 98.2 |
| 80171 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM | 09/29/70-03/08/77 | 17 | 88. | 74.059 | 100. | 32. | 639.934 | 25.297 | 39.2 | 45. | 99. | 100. |
| 80172 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM | 09/29/70-03/08/77 | 15 | 91. | 79.933 | 100. | 54. | 344.638 | 18.564 | 55.2 | 62. | 100. | 100. |
| 80173 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM | 04/13/71-08/11/76 | 11 | 93. | 91. | 100. | 65. | 110.6 | 10.517 | 68.6 | 86. | 100. | 100. |
| 80174 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM | 08/11/76-08/11/76 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 81886 | PERTHANE IN SEDIMENT DRY WEIGHT UG/KG | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 82052 | BANVEL (DICAMBA) WHOLE WATER,UG/L | 06/20/84-08/31/92 | 34 | 0.02 | 0.028 | 0.1 | 0.005 | 0.001 | 0.023 | 0.005 | 0.01 | 0.04 | 0.065 |
| 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-08/31/92 | 36 ## | 0.005 | 0.005 | 0.005 | 0. | 0. | 0.001 | 0.005 | 0.005 | 0.005 | 0.005 |
| 82630 | METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82660 | DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82661 | TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82663 | ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82664 | PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82665 | TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 82666 | LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82667 | METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 82668 | EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82669 | PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82670 | TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 82671 | MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 82672 | ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82673 | BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82674 | CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82675 | TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 82676 | PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82677 | DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 82678 | TRIALATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 1 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82679 | PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82680 | CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82681 | THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82682 | DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82683 | PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82684 | NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 82685 | PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 82686 | METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 82687 | PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/26/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0002

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 78 | 33 | 0.42 | 51 | 13 | 0.25 | 16 | 13 | 0.81 | 11 | 7 | 0.64 | | |
| 00076 | TURBIDITY, HACH TURBIDIMETER | Other-Hi Lim. | 50. | 3 | 3 | 1.00 | 3 | 3 | 1.00 | | | | | | | | |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 122 | 0 | 0.00 | 81 | 0 | 0.00 | 23 | 0 | 0.00 | 18 | 0 | 0.00 | | |
| 00400 | PH | Fresh Chronic | 9. | 514 | 1 | 0.00 | 312 | 1 | 0.00 | 116 | 0 | 0.00 | 86 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 514 | 0 | 0.00 | 312 | 0 | 0.00 | 116 | 0 | 0.00 | 86 | 0 | 0.00 | | |
| 00403 | PH, LAB | Fresh Chronic | 9. | 70 | 0 | 0.00 | 49 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 70 | 0 | 0.00 | 49 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00618 | NITRATE NITROGEN, DISSOLVED AS N | Drinking Water | 10. | 85 | 0 | 0.00 | 57 | 0 | 0.00 | 15 | 0 | 0.00 | 13 | 0 | 0.00 | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 58 | 0 | 0.00 | 38 | 0 | 0.00 | 10 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. | Drinking Water | 10. | 70 | 0 | 0.00 | 48 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 524 | 0 | 0.00 | 325 | 0 | 0.00 | 114 | 0 | 0.00 | 85 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 524 | 0 | 0.00 | 325 | 0 | 0.00 | 114 | 0 | 0.00 | 85 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 525 | 405 | 0.77 | 325 | 305 | 0.94 | 115 | 57 | 0.50 | 85 | 43 | 0.51 | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 497 | 0 | 0.00 | 312 | 0 | 0.00 | 107 | 0 | 0.00 | 78 | 0 | 0.00 | | |
| 01000 | ARSENIC, DISSOLVED | Fresh Acute | 360. | 24 | 0 | 0.00 | 18 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 24 | 1 | 0.04 | 18 | 1 | 0.06 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 20 | 0 | 0.00 | 16 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 19 | 0 | 0.00 | 15 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 4. | 19 | 0 | 0.00 | 15 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01025 | CADMIUM, DISSOLVED | Fresh Acute | 3.9 | 23 | 0 | 0.00 | 18 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 5. | 23 | 0 | 0.00 | 18 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 25 | 0 | 0.00 | 20 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 25 | 0 | 0.00 | 20 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 1300. | 25 | 0 | 0.00 | 20 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 25 | 0 | 0.00 | 20 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 15. | 25 | 0 | 0.00 | 20 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 16 | 0 | 0.00 | 13 | 0 | 0.00 | 3 | 0 | 0.00 | | | | | |
| | | Drinking Water | 100. | 16 | 0 | 0.00 | 13 | 0 | 0.00 | 3 | 0 | 0.00 | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 23 | 0 | 0.00 | 18 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 100. | 23 | 0 | 0.00 | 18 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 22 | 1 | 0.05 | 17 | 1 | 0.06 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 5000. | 22 | 0 | 0.00 | 17 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01145 | SELENIUM, DISSOLVED | Fresh Acute | 20. | 19 | 0 | 0.00 | 14 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 19 | 0 | 0.00 | 14 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 04035 | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVER | Drinking Water | 4. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | |
| 31501 | COLIFORM, TOTAL, MEMBRANE FILTER, IMMEDIATE | Other-Hi Lim. | 1000. | 11 | 6 | 0.55 | 8 | 4 | 0.50 | 2 | 2 | 1.00 | 1 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0002

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 31616 | FECAL COLIFORM, MEMBRANE FILTER, BROTH | 200. | 38 | 10 | 0.26 | 23 | 1 | 0.04 | 8 | 5 | 0.63 | 7 | 4 | 0.57 | | | |
| 31625 | FECAL COLIFORM, MF | 200. | 84 | 38 | 0.45 | 58 | 20 | 0.34 | 14 | 9 | 0.64 | 12 | 9 | 0.75 | | | |
| 34653 | P,P'-DDE, DISSOLVED | 1050. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 38866 | OXAMYL, DISSOLVED | 200. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 38933 | CHLORPYRIFOS, DISSOLVED | 0.083 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE | 3. | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39331 | ALDRIN IN FILT. FRAC. OF WAT. SAMP. | 3. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39332 | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. | 3. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39340 | GAMMA-BHC(LINDANE), WHOLE WATER | 2. | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39341 | GAMMA-BHC(LINDANE), DISSOLVED | 2. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39342 | GAMMA-BHC(LINDANE), SUSPENDED | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39350 | CHLORDANE(TECH MIX & METABS), WHOLE WATE | 2.4 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39352 | CHLORDANE(TECH MIX & METABS), DISSOLVED | 2.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39353 | CHLORDANE(TECH MIX & METABS), SUSPENDED | 2.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39360 | DDD IN WHOLE WATER SAMPLE | 0.6 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39361 | DDD IN FILT. FRAC. OF WATER SMAPLE | 0.6 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39362 | DDD IN SUSP. FRAC. OF WATER SAMPLE | 0.6 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39365 | DDE IN WHOLE WATER SAMPLE | 1050. | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39366 | DDE IN FILT. FRAC. OF WATER SAMPLE | 1050. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39367 | DDE IN SUSP. FRAC. OF WATER SAMPLE | 1050. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39370 | DDT IN WHOLE WATER SAMPLE | 1.1 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39371 | DDT IN FILT. FRAC. OF WATER SAMPLE | 1.1 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39372 | DDT IN SUSP. FRAC. OF WATER SAMPLE | 1.1 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE | 2.5 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE | 2.5 | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39382 | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE | 2.5 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE | 0.22 | 7 | 0 | 0.00 | 4 | 0 | 0.00 | 3 | 0 | 0.00 | | | | | | |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE | 0.18 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39391 | ENDRIN IN FILT. FRAC. OF WATER SAMPLE | 0.18 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39392 | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE | 0.18 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE | 0.73 | 8 | 0 | 0.00 | 5 | 0 | 0.00 | 3 | 0 | 0.00 | | | | | | |
| | Drinking Water | 3. | 8 | 0 | 0.00 | 5 | 0 | 0.00 | 3 | 0 | 0.00 | | | | | | |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE | 0.52 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39411 | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39412 | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPL | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE | 0.52 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 17 | 0 | 0.00 | 11 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39421 | HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39422 | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE | 40. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| 39540 | PARATHION IN WHOLE WATER SAMPLE | 0.065 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE | 0.065 | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39543 | PARATHION IN SUSP. FRAC. OF WATER SAMPLE | 0.065 | 7 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39632 | ATRAZINE DISSOLVED IN WATER | 3. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0002

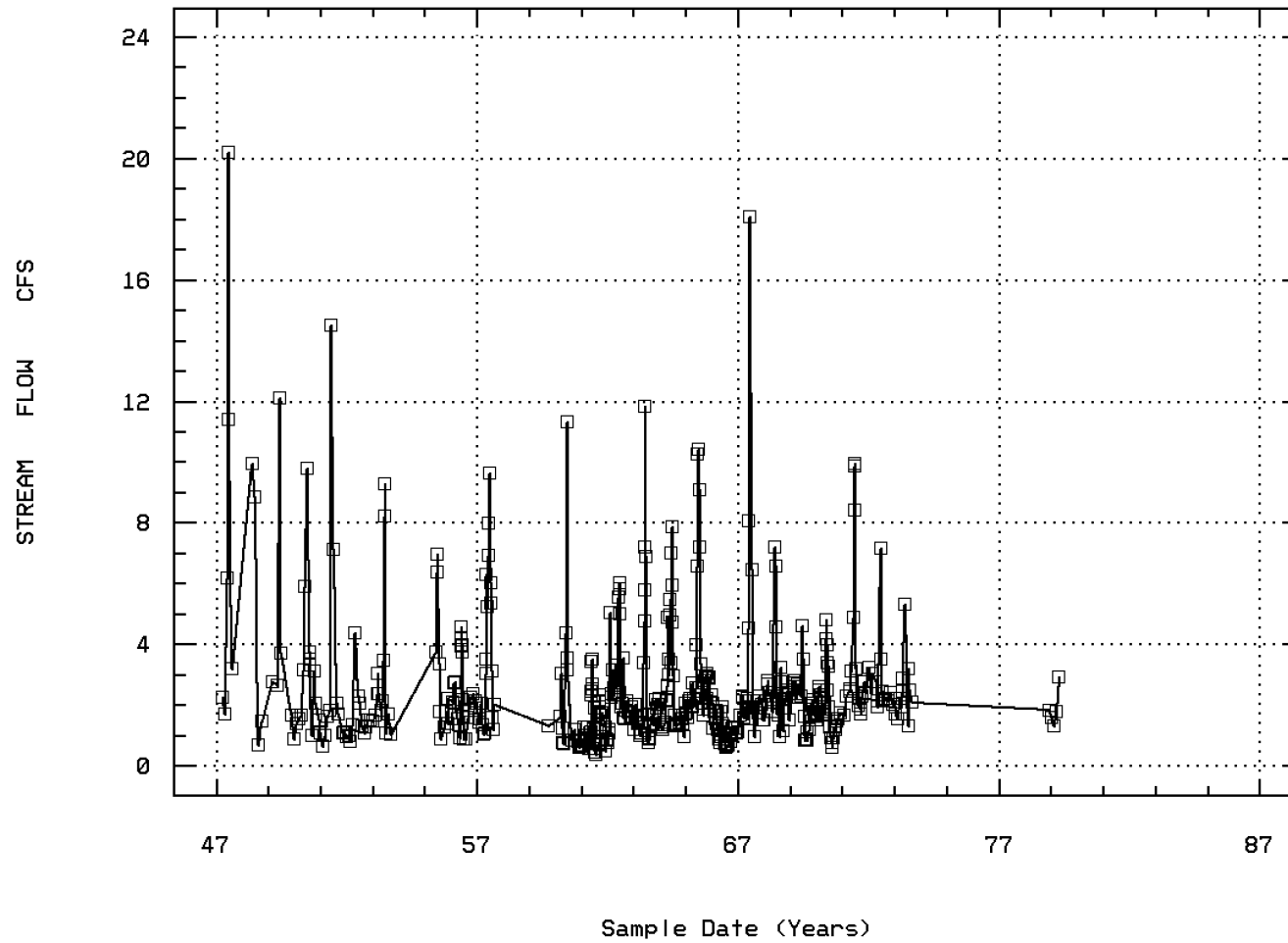
| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE | 500. | 34 | 0 | 0.00 | 14 | 0 | 0.00 | 9 | 0 | 0.00 | 11 | 0 | 0.00 | | | |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE | 70. | 51 | 0 | 0.00 | 24 | 0 | 0.00 | 14 | 0 | 0.00 | 13 | 0 | 0.00 | | | |
| 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE | 70. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39733 | 2,4-D IN SUSP. FRAC. OF WATER SAMPLE | 70. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39760 | SILVEX IN WHOLE WATER SAMPLE | 50. | 51 | 0 | 0.00 | 24 | 0 | 0.00 | 14 | 0 | 0.00 | 13 | 0 | 0.00 | | | |
| 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE | 50. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39763 | SILVEX IN SUSP. FRAC. OF WATER SAMPLE | 50. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 46342 | ALACHLOR (LASSO), WATER, DISSOLVED | 2. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 71850 | NITRATE NITROGEN, TOTAL (AS NO3) | 44. | 70 | 0 | 0.00 | 39 | 0 | 0.00 | 21 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 71851 | NITRATE NITROGEN, DISSOLVED (AS NO3) | 44. | 428 | 1 | 0.00 | 265 | 0 | 0.00 | 94 | 0 | 0.00 | 69 | 1 | 0.01 | | | |
| 71856 | NITRITE NITROGEN, DISSOLVED (AS NO2) | 3.3 | 27 | 21 | 0.78 | 19 | 15 | 0.79 | 5 | 4 | 0.80 | 3 | 2 | 0.67 | | | |
| 71890 | MERCURY, DISSOLVED | 2.4 | 17 | 0 | 0.00 | 13 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 17 | 0 | 0.00 | 13 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BICA0002 Parameter Code: 00060

FLOW, STREAM, MEAN DAILY

(X 1000)

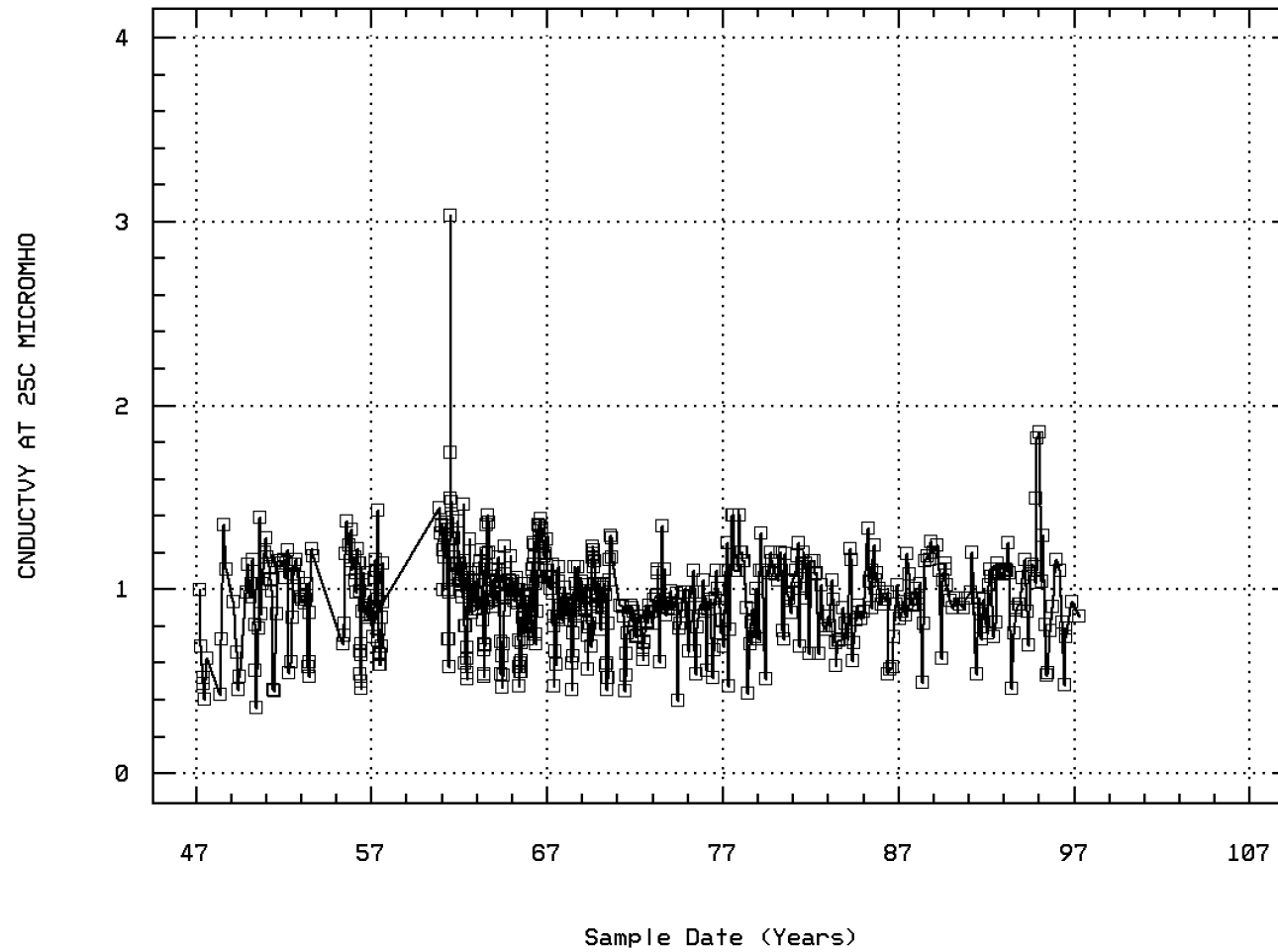


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00095

(X 1000)

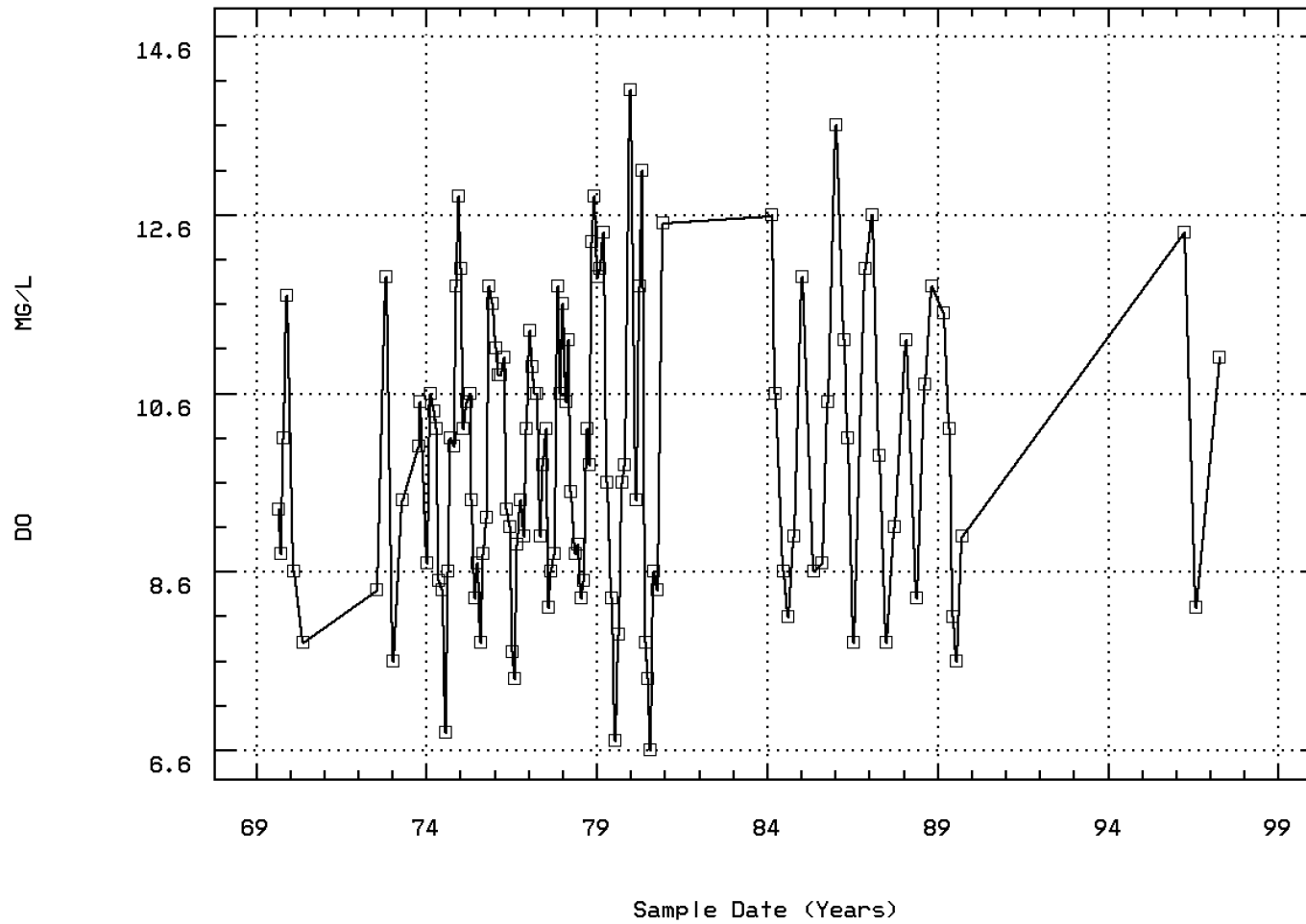
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00300

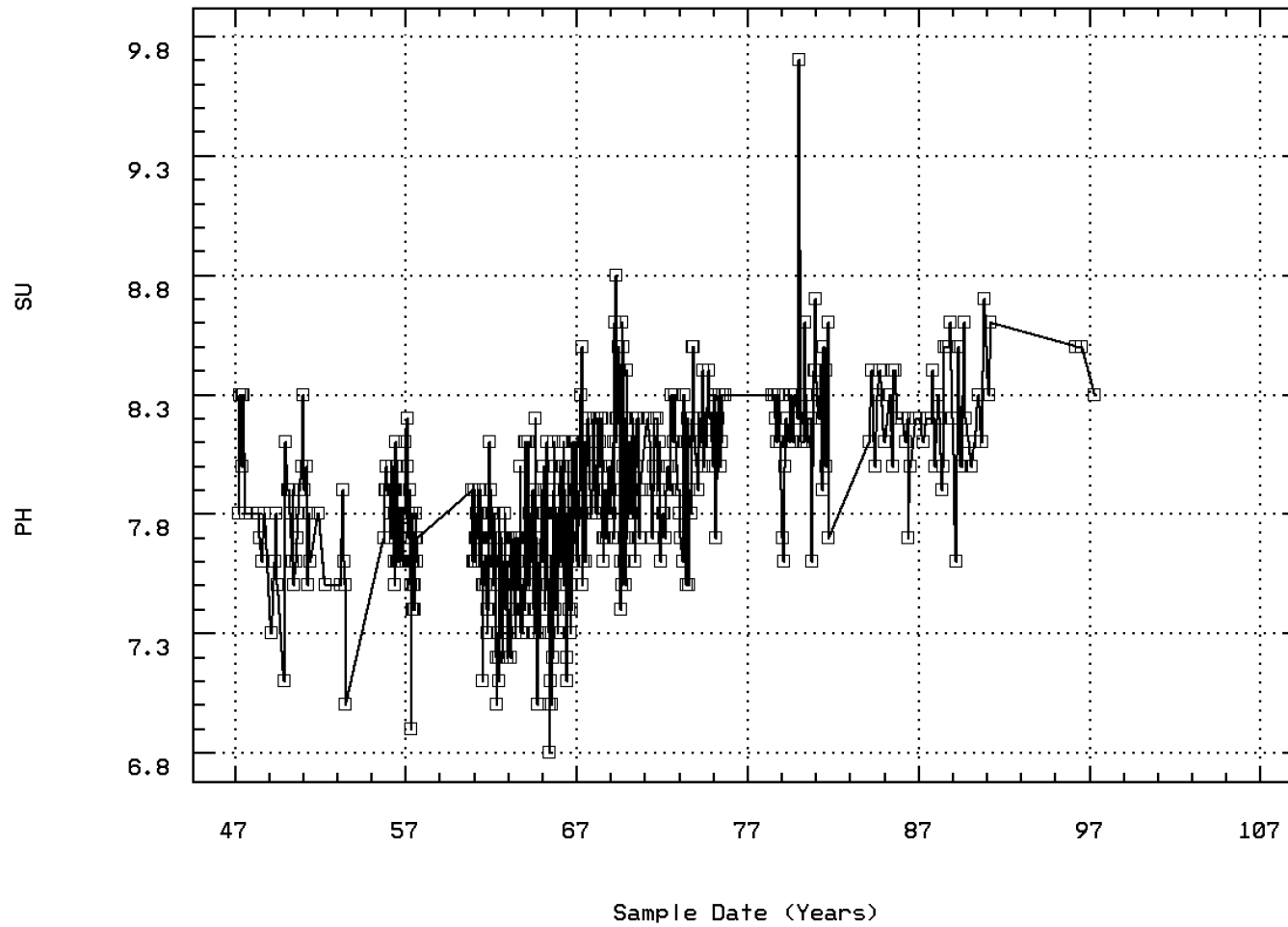
OXYGEN, DISSOLVED



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00400

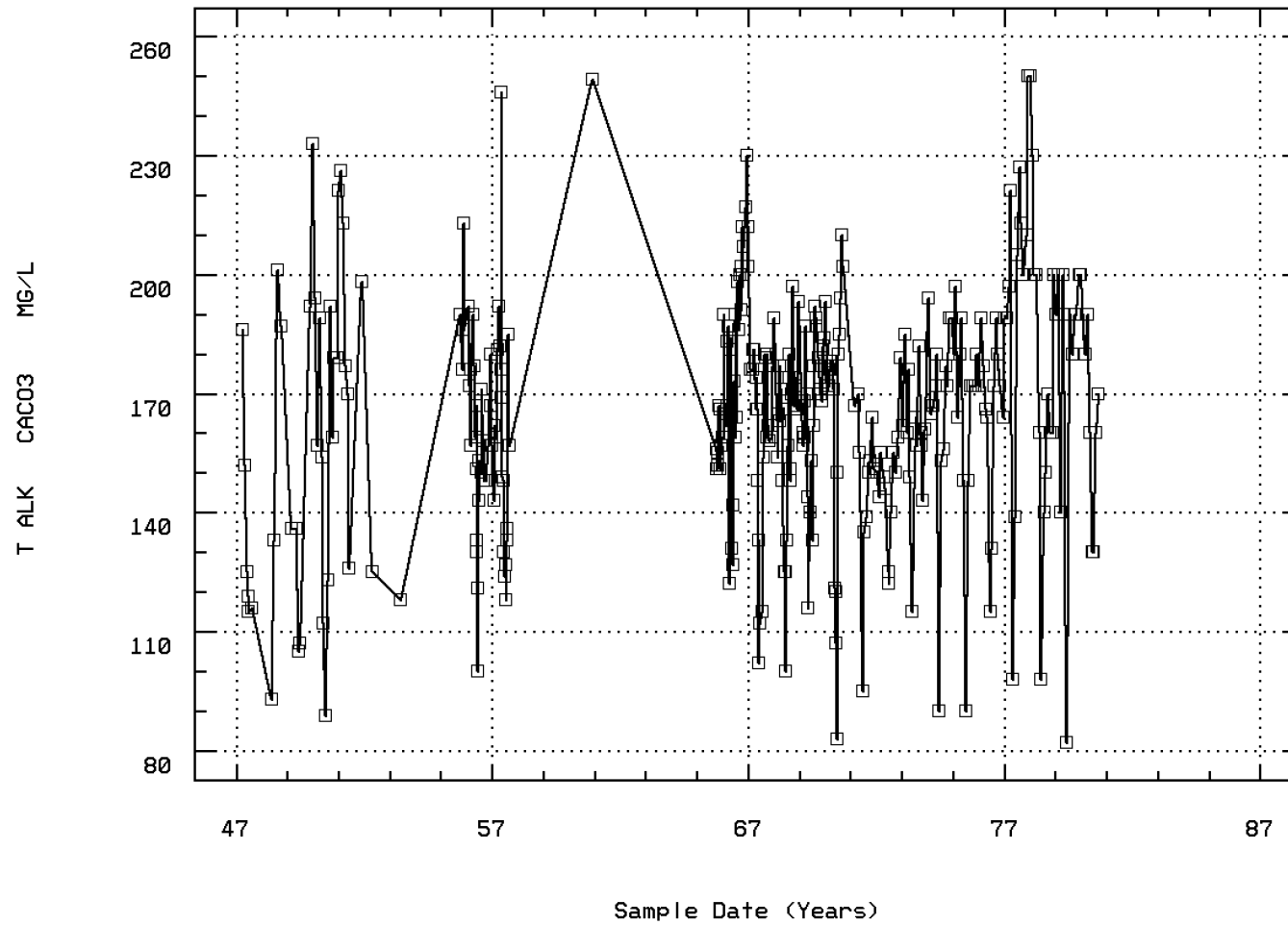
PH (STANDARD UNITS)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00410

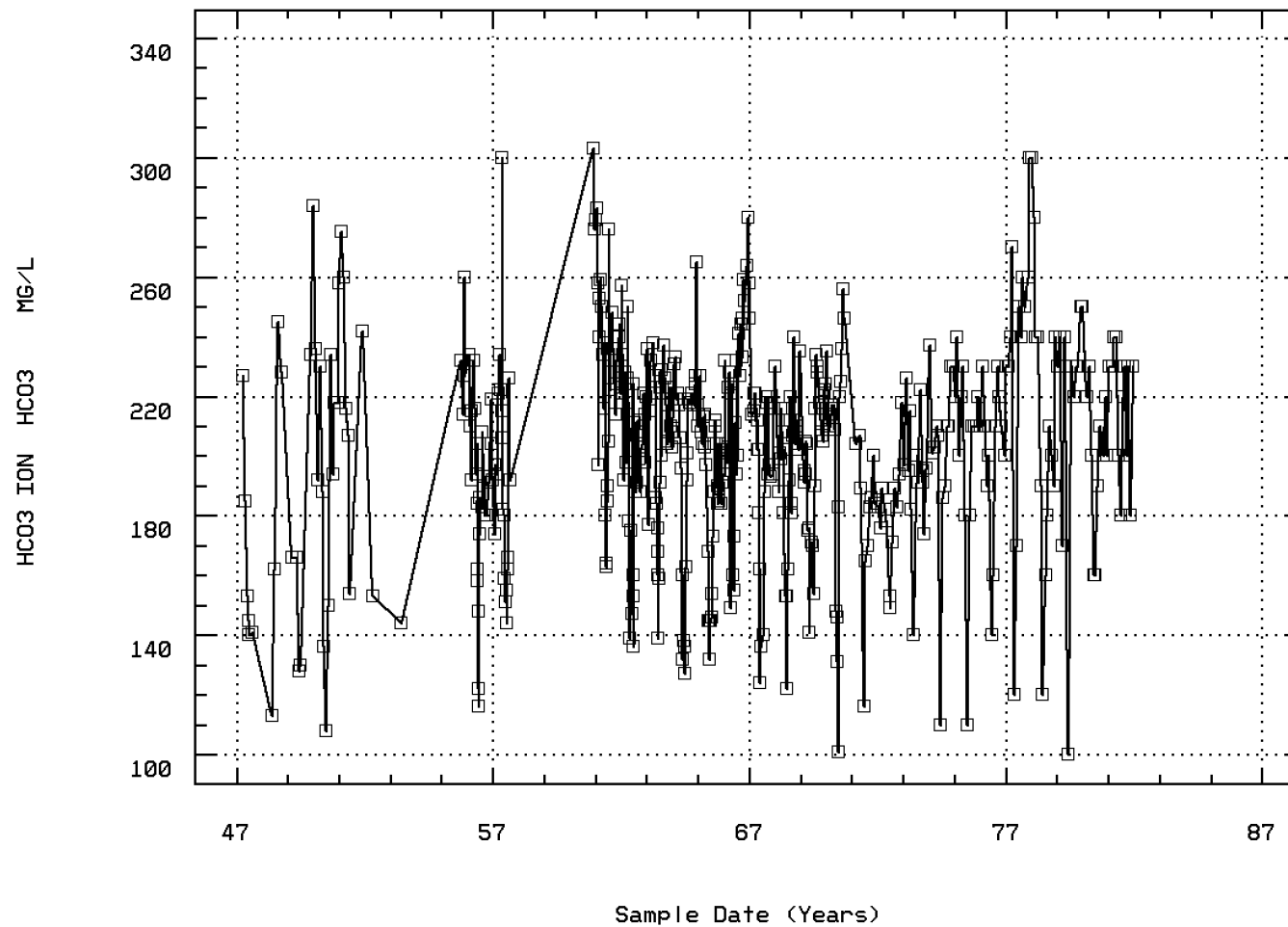
ALKALINITY, TOTAL (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00440

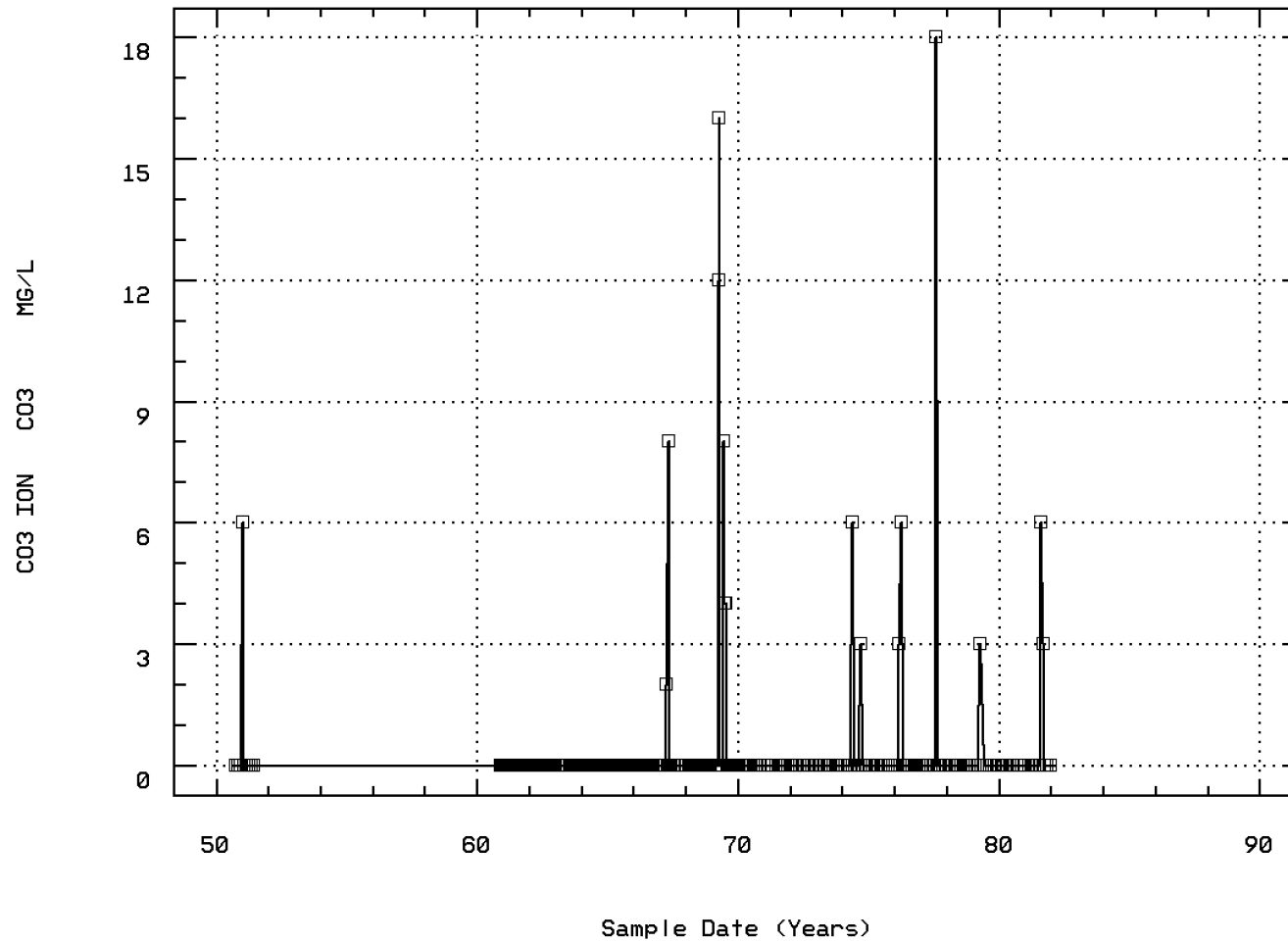
BICARBONATE ION (MG/L AS HCO_3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00445

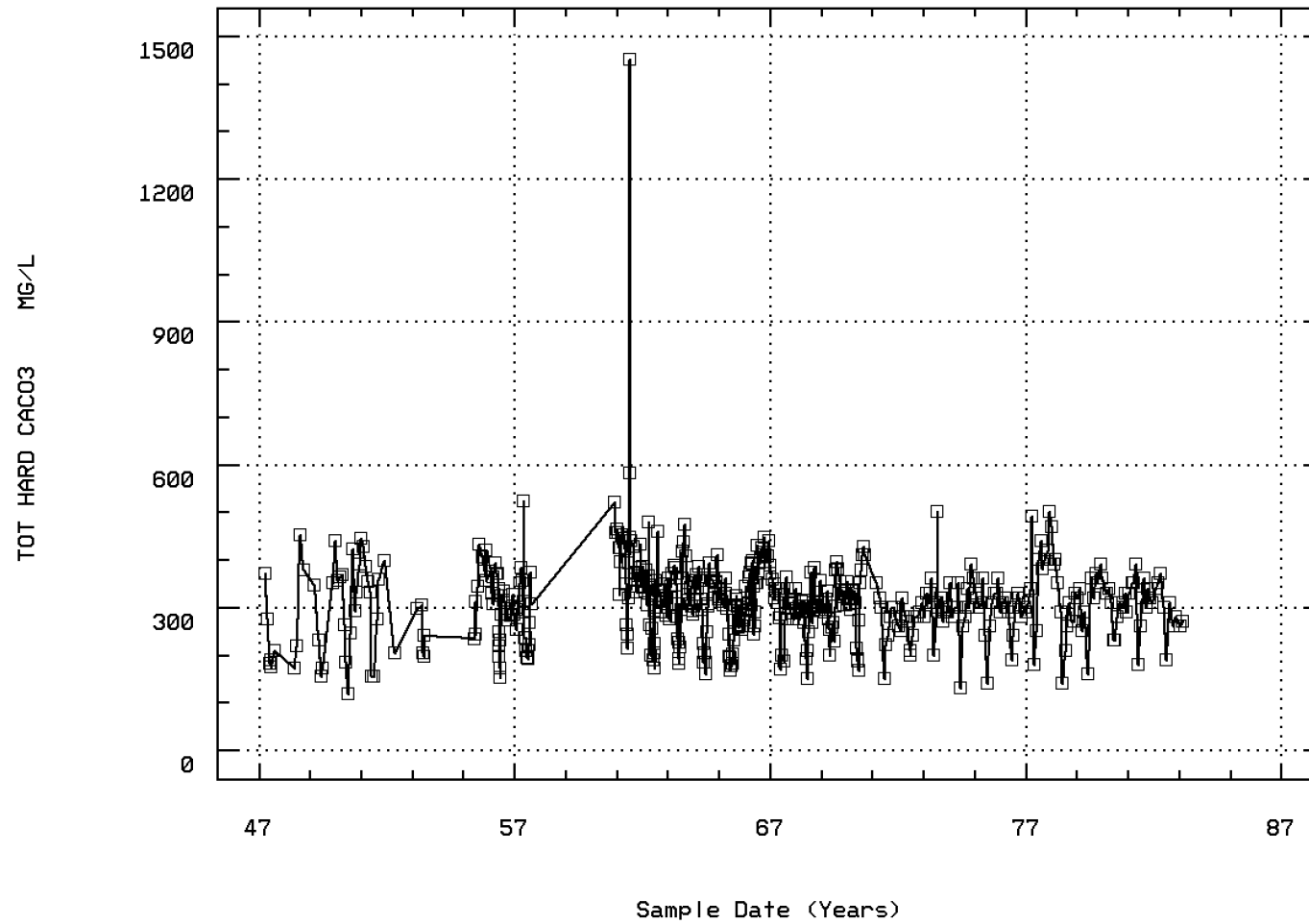
CARBONATE ION (MG/L AS CO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00900

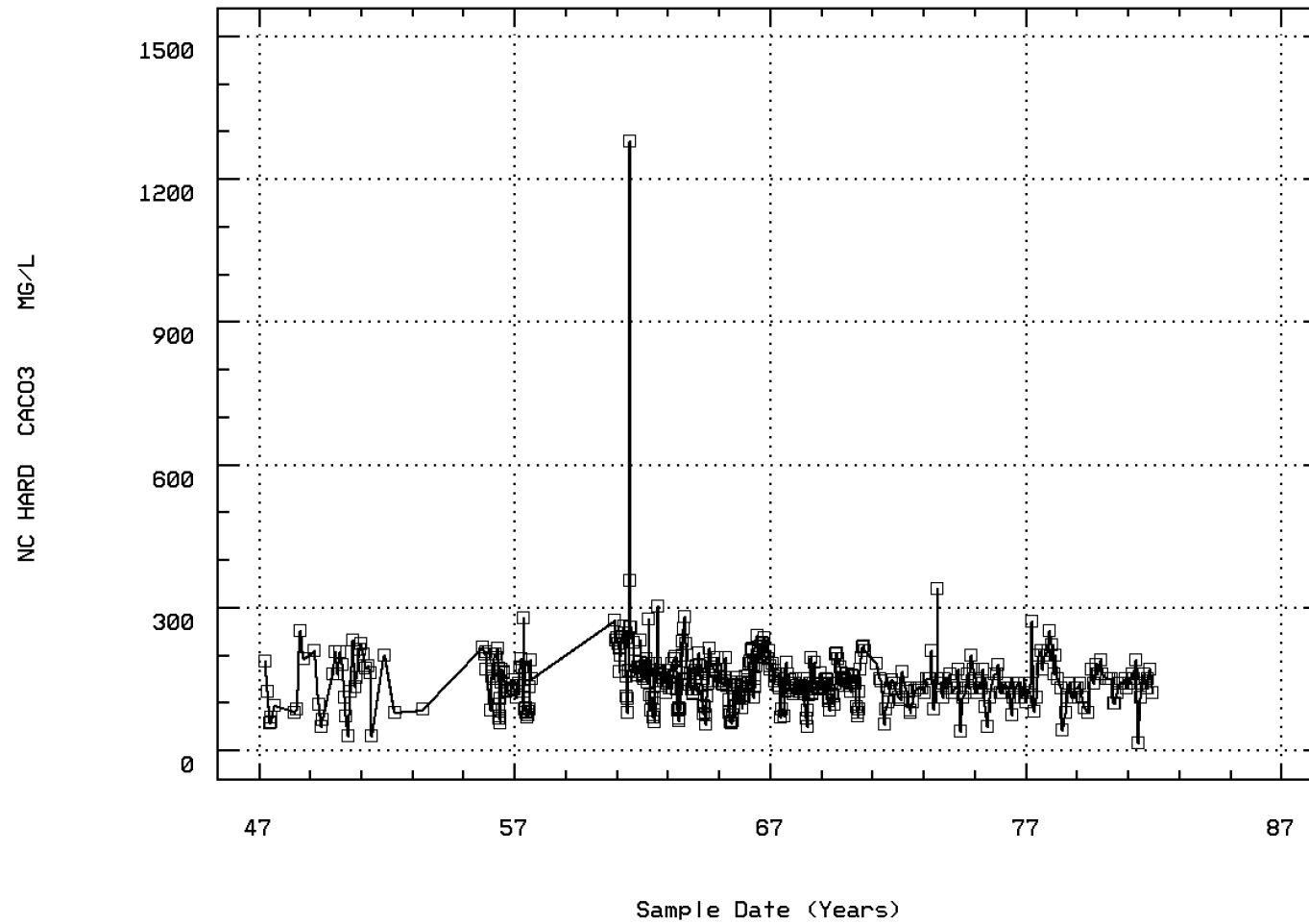
HARDNESS, TOTAL (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00902

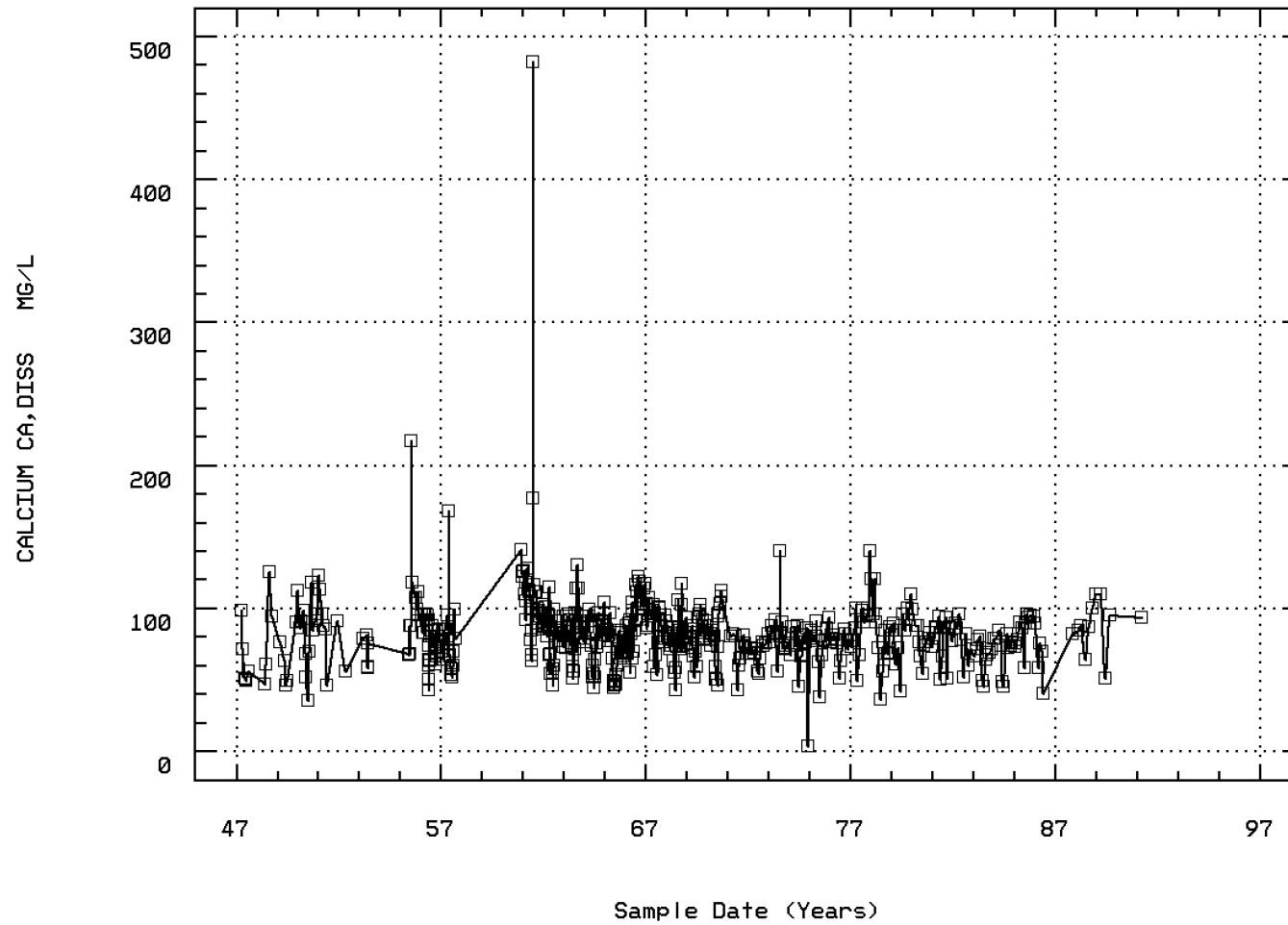
HARDNESS, NON-CARBONATE (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00915

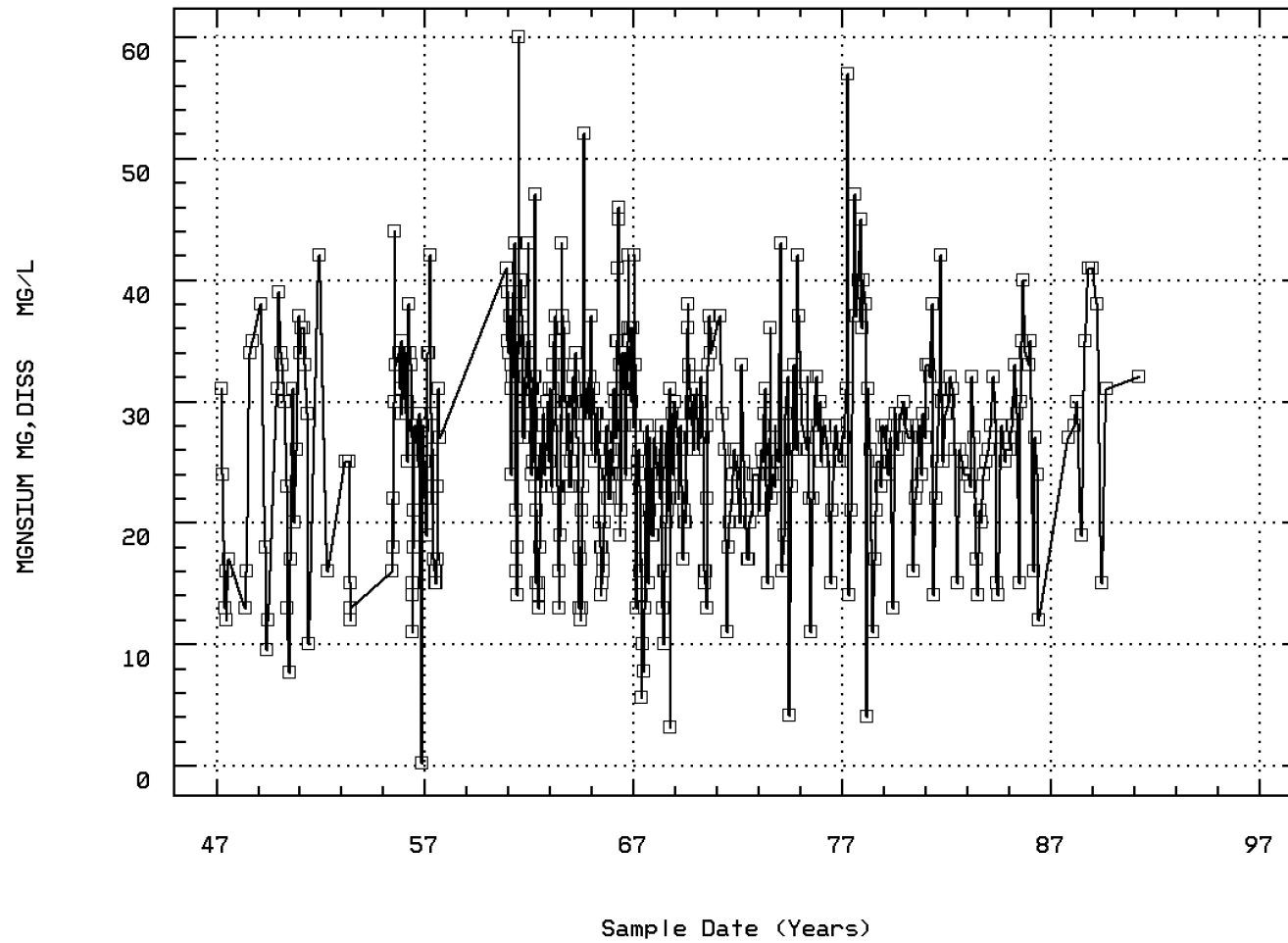
CALCIUM, DISSOLVED (MG/L AS CA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00925

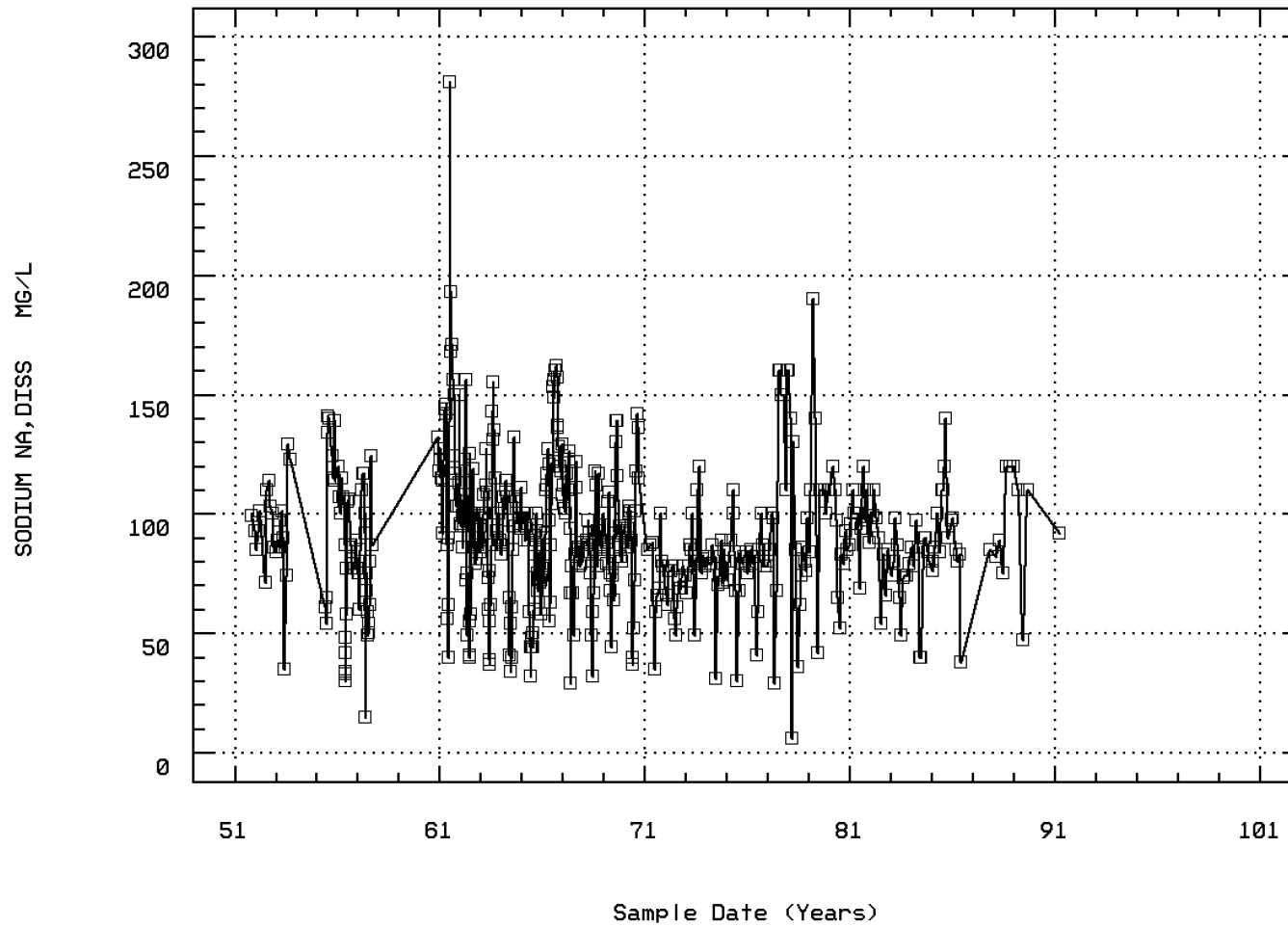
MAGNESIUM, DISSOLVED (MG/L AS MG)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00930

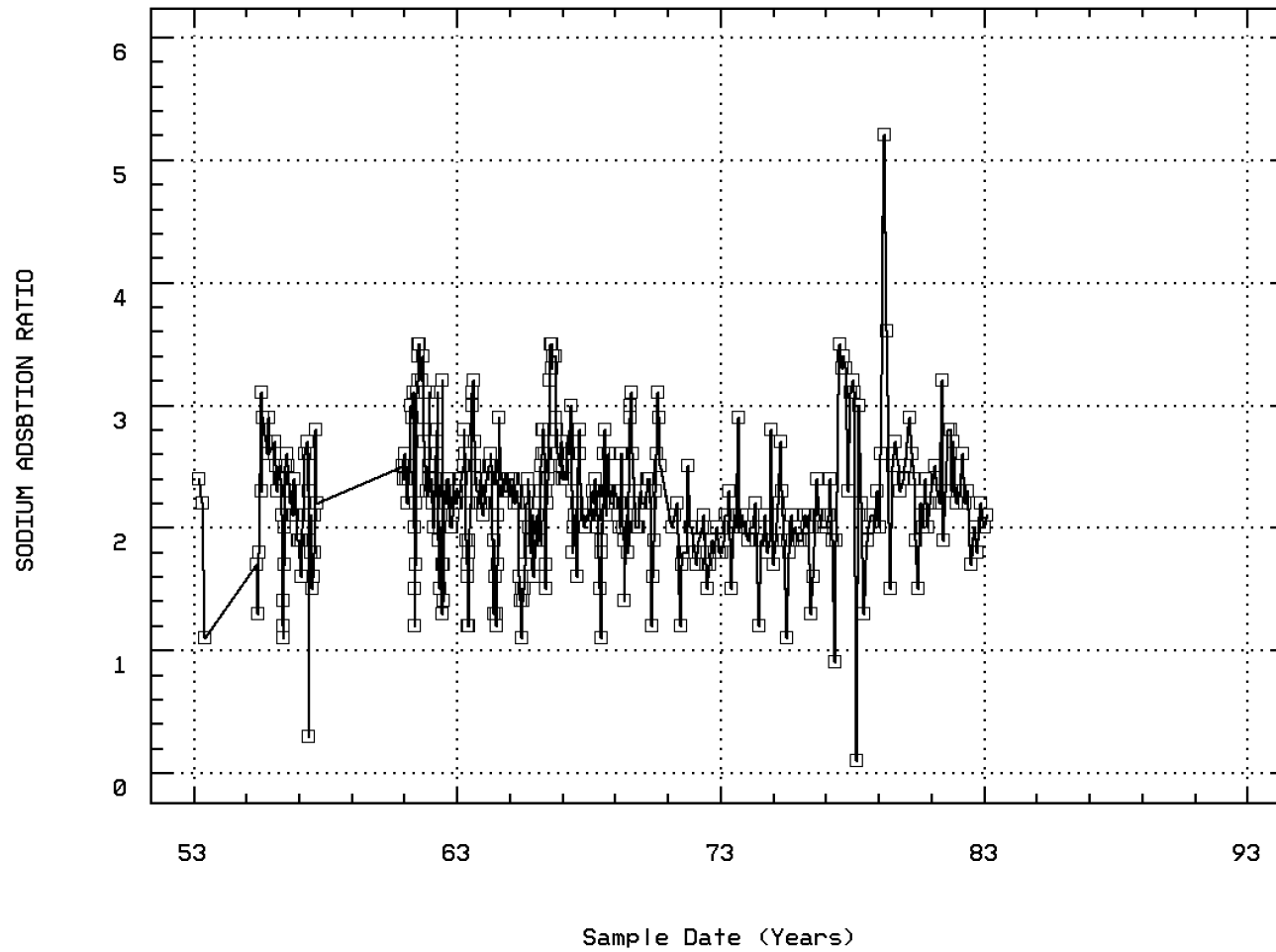
SODIUM, DISSOLVED (MG/L AS NA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00931

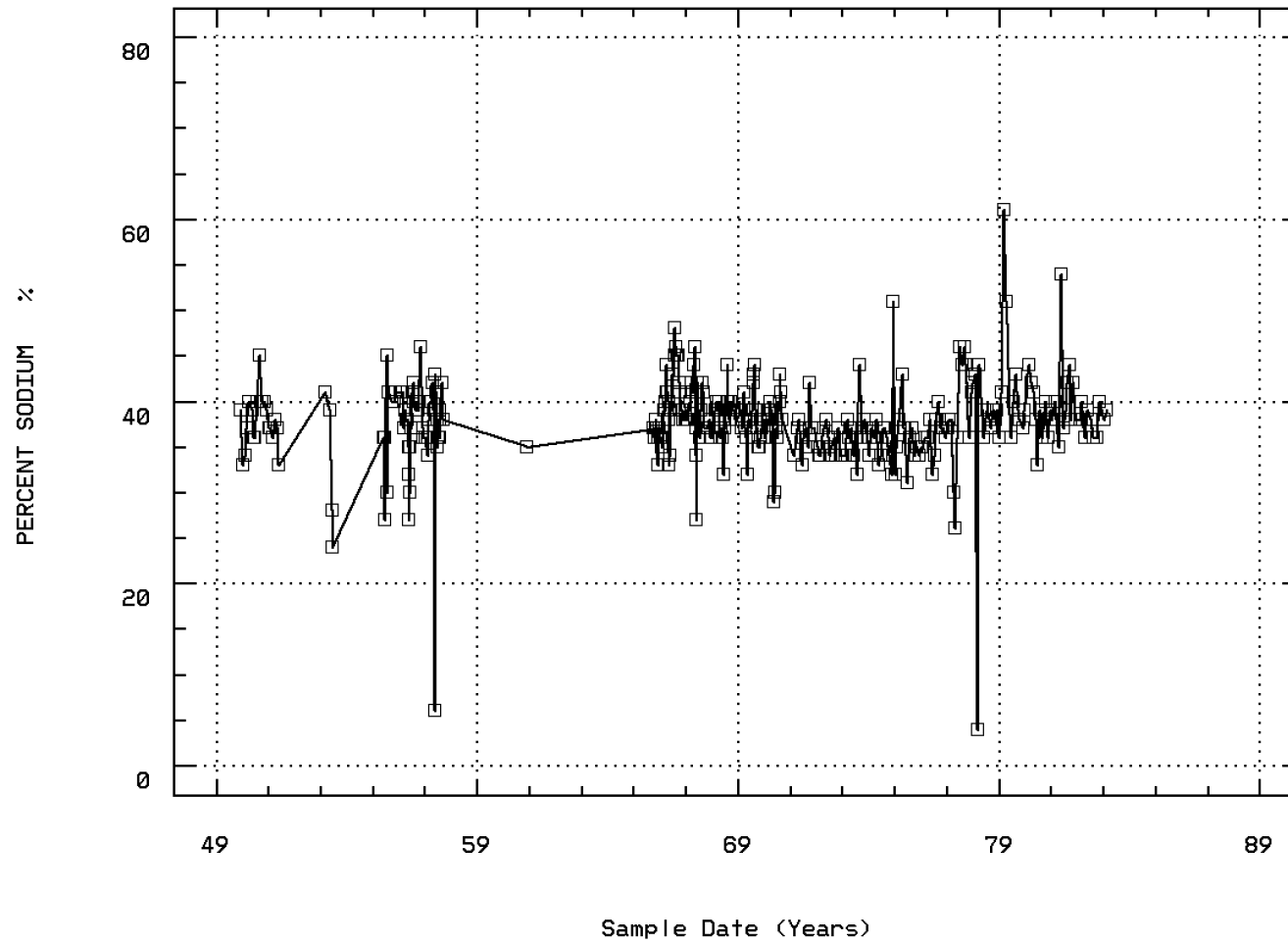
SODIUM ADSORPTION RATIO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00932

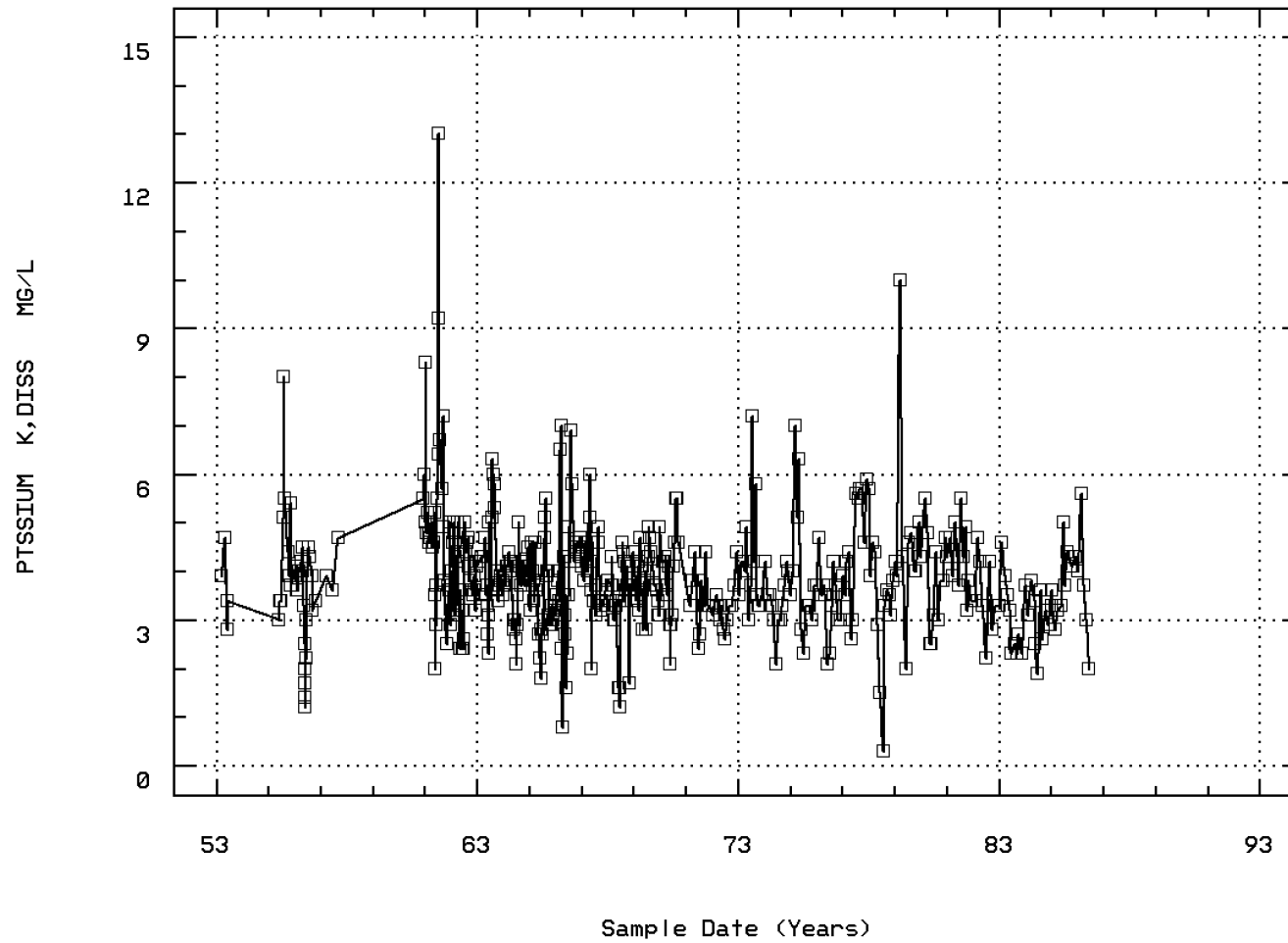
SODIUM, PERCENT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00935

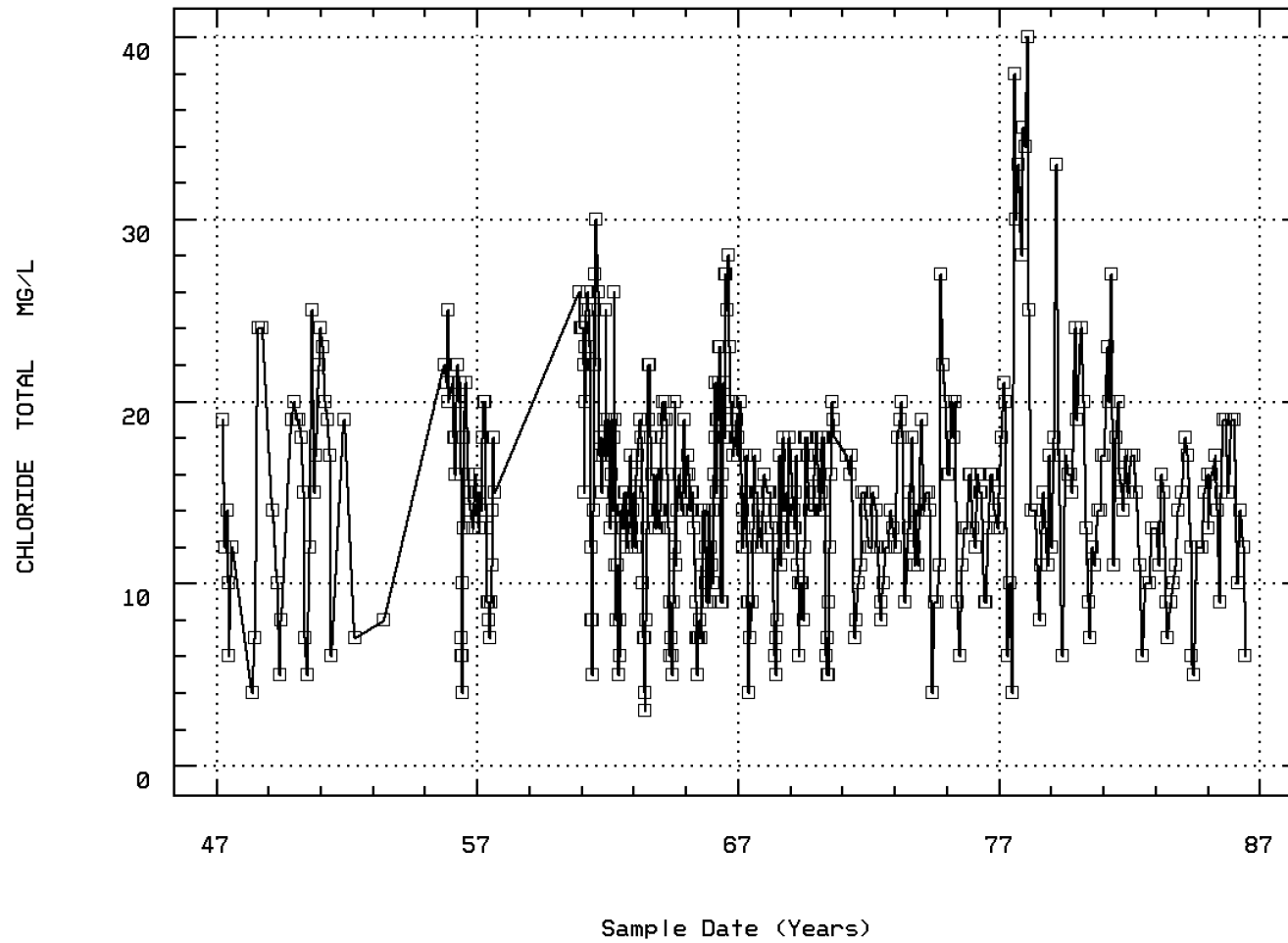
POTASSIUM, DISSOLVED (MG/L AS K)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00940

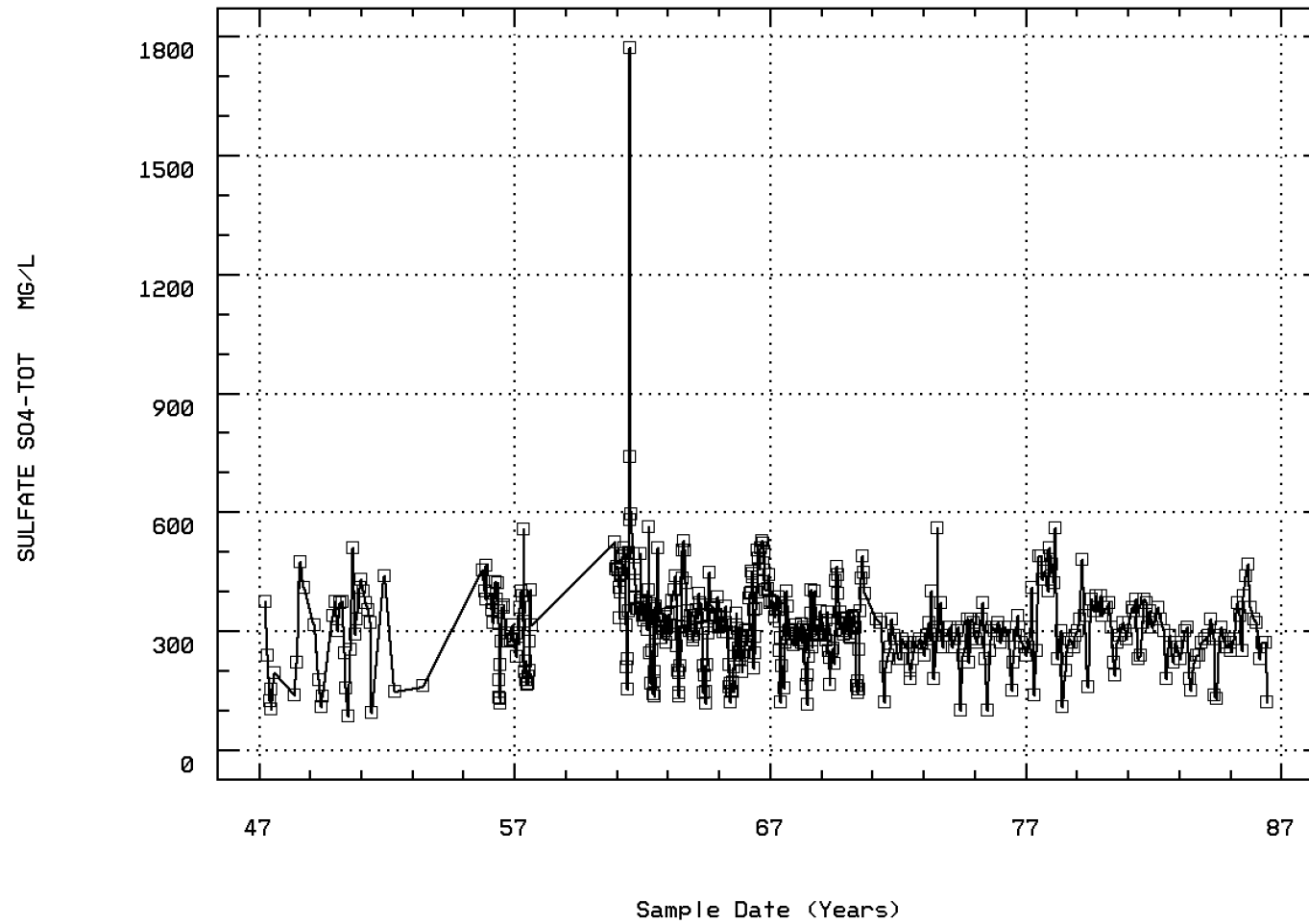
CHLORIDE, TOTAL IN WATER



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00945

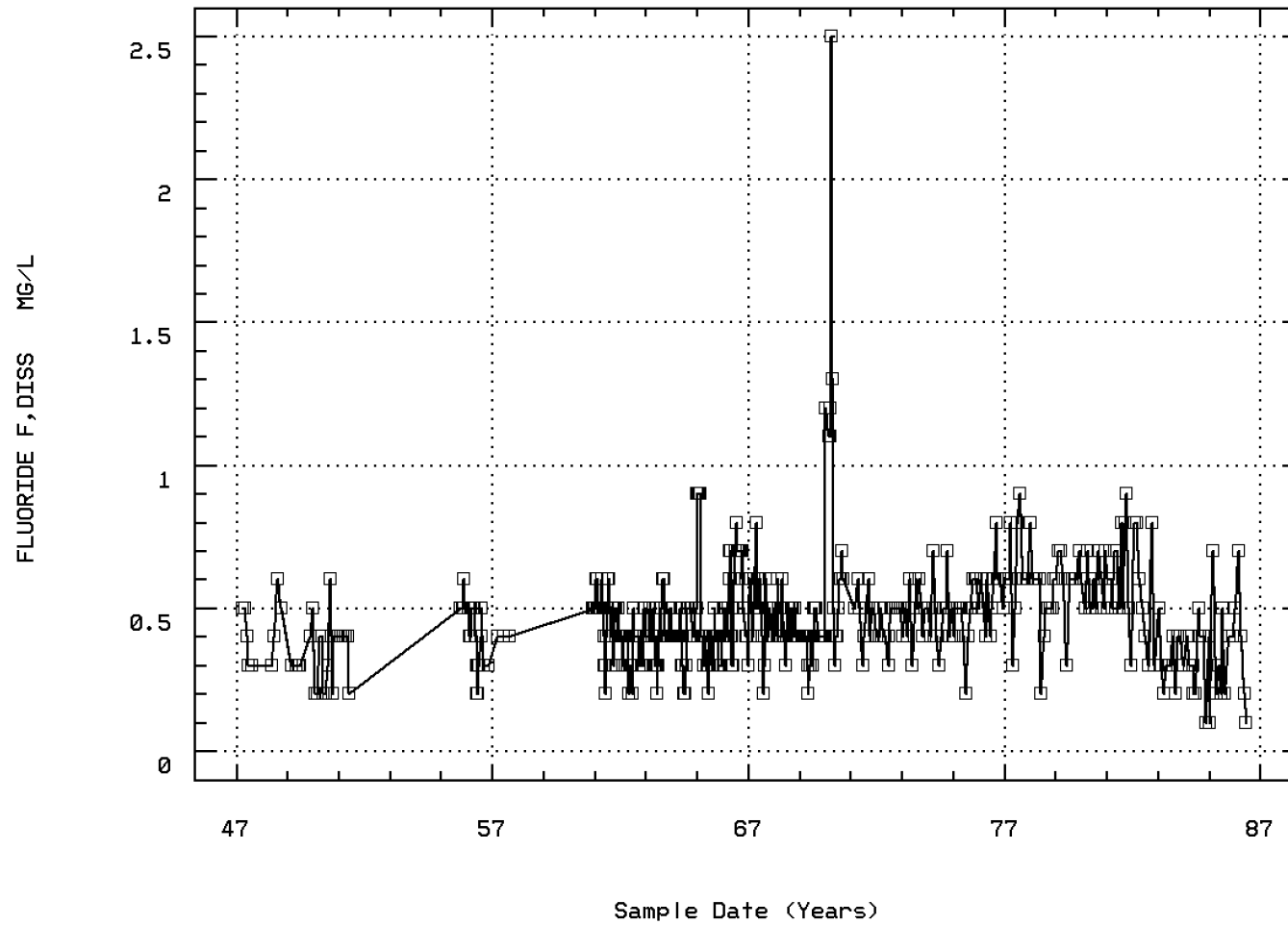
SULFATE, TOTAL (MG/L AS SO4)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00950

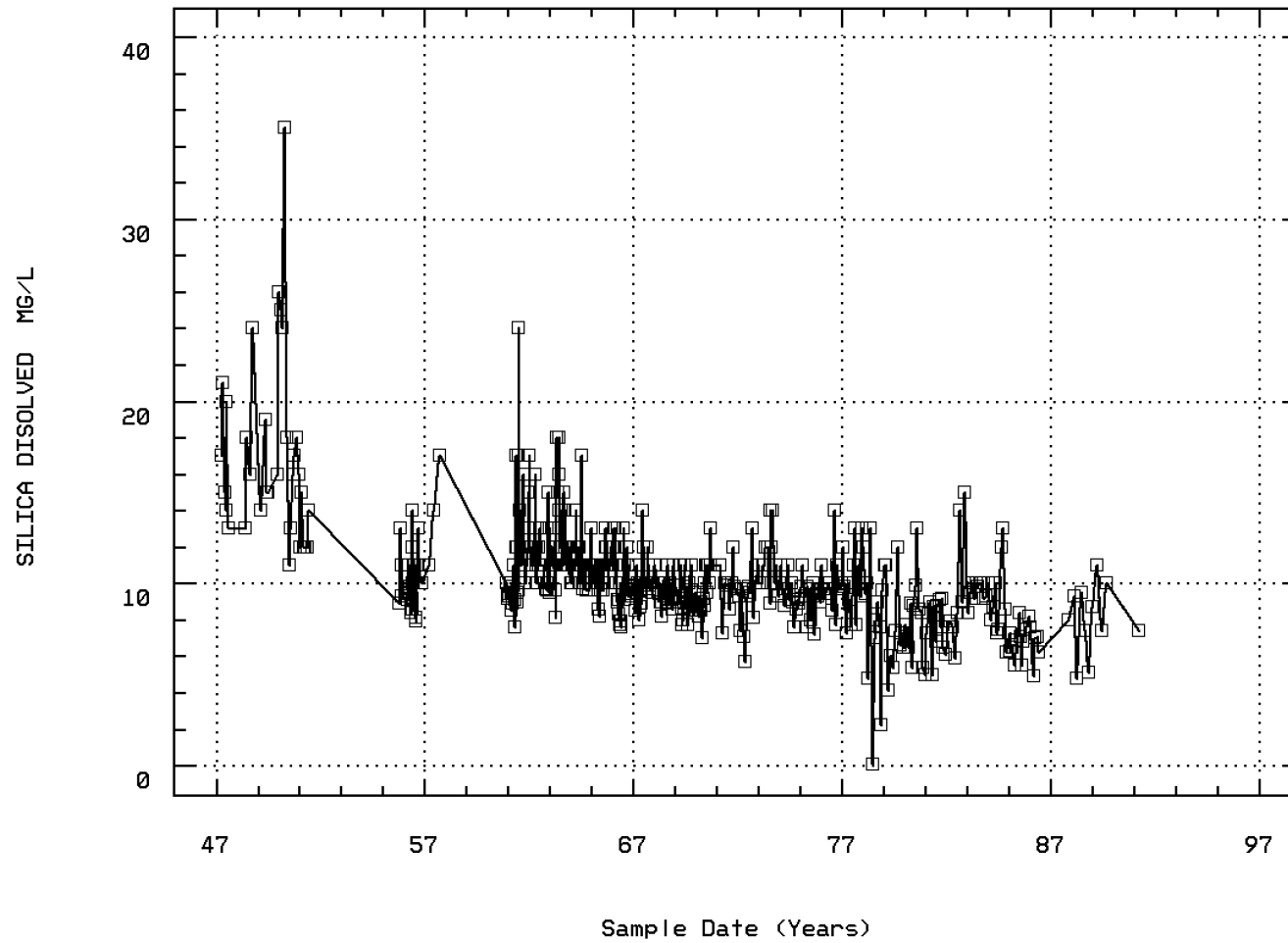
FLUORIDE, DISSOLVED (MG/L AS F)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00955

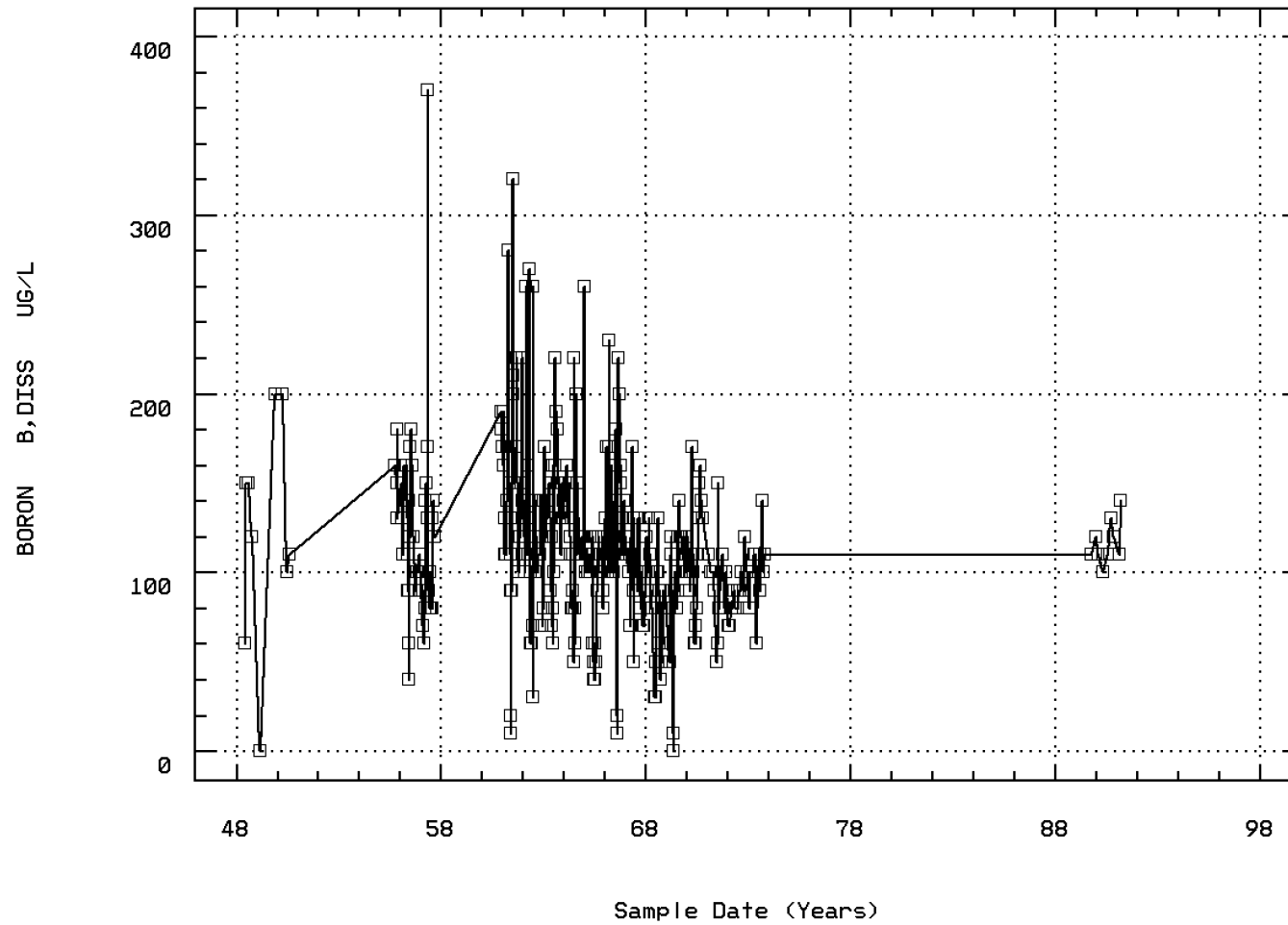
SILICA, DISSOLVED (MG/L AS SI02)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 01020

BORON, DISSOLVED (UG/L AS B)

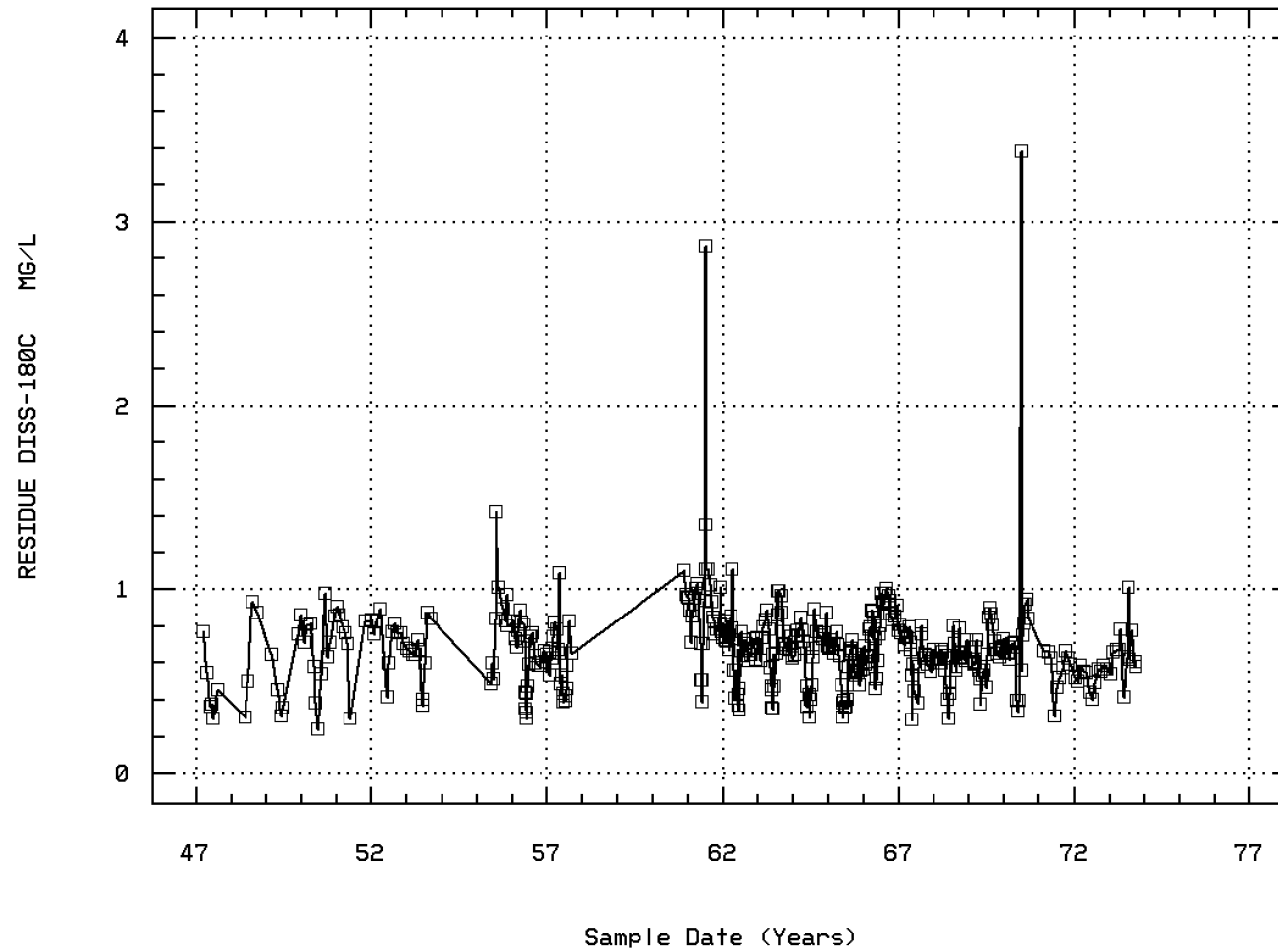


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70300

RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)

(X 1000)

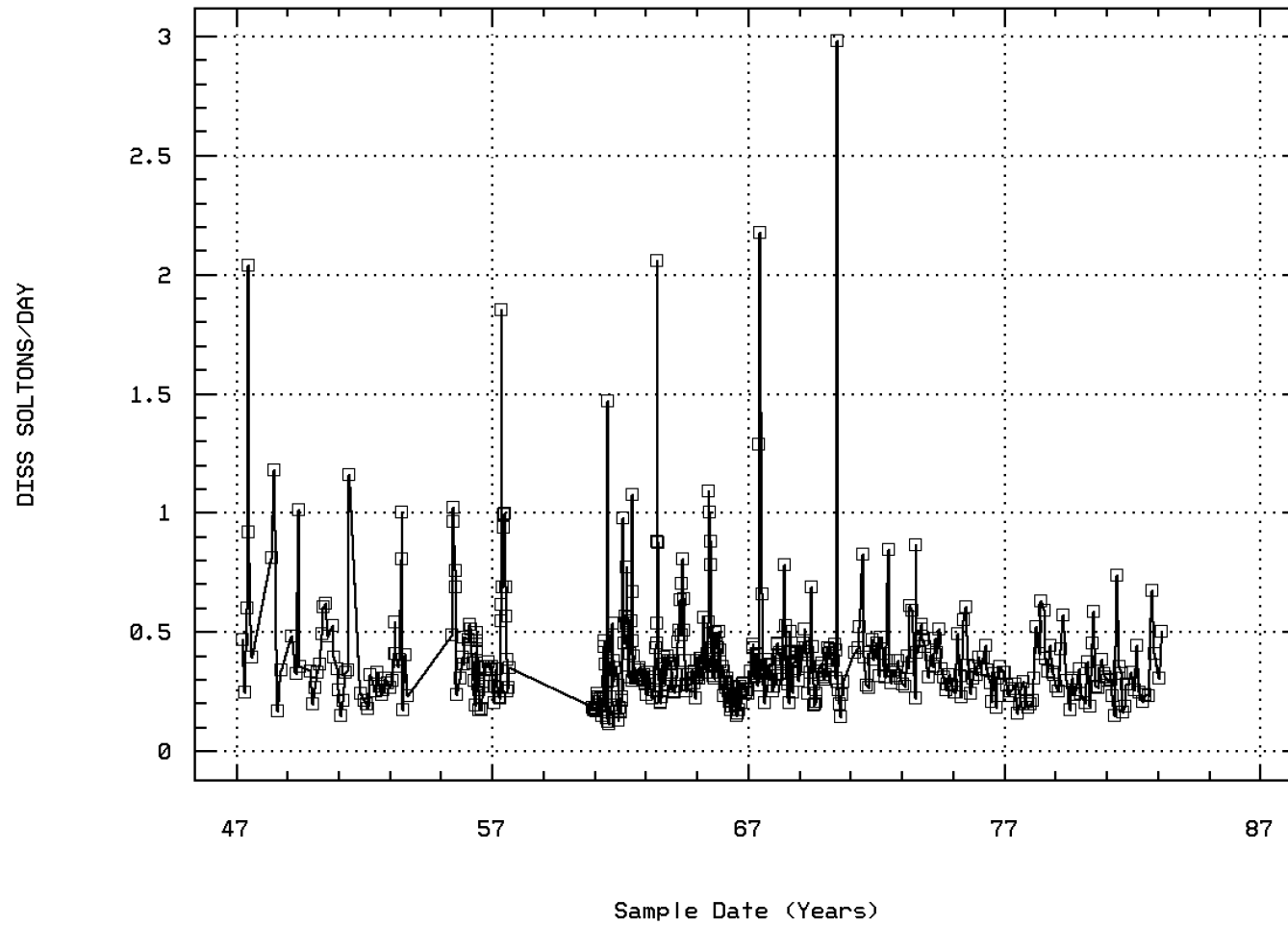


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70302

SOLIDS, DISSOLVED-TONS PER DAY

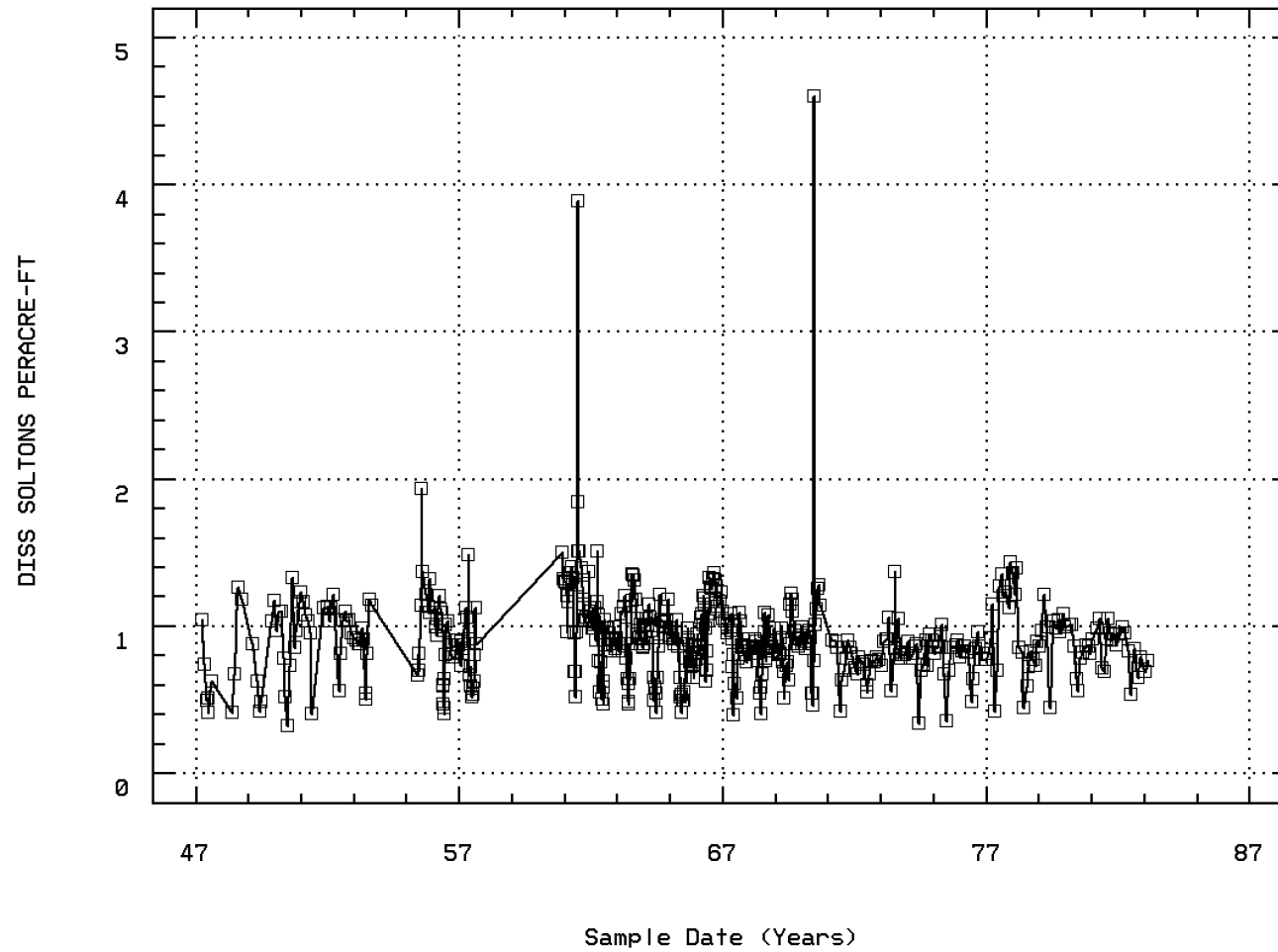
(X 10000)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70303

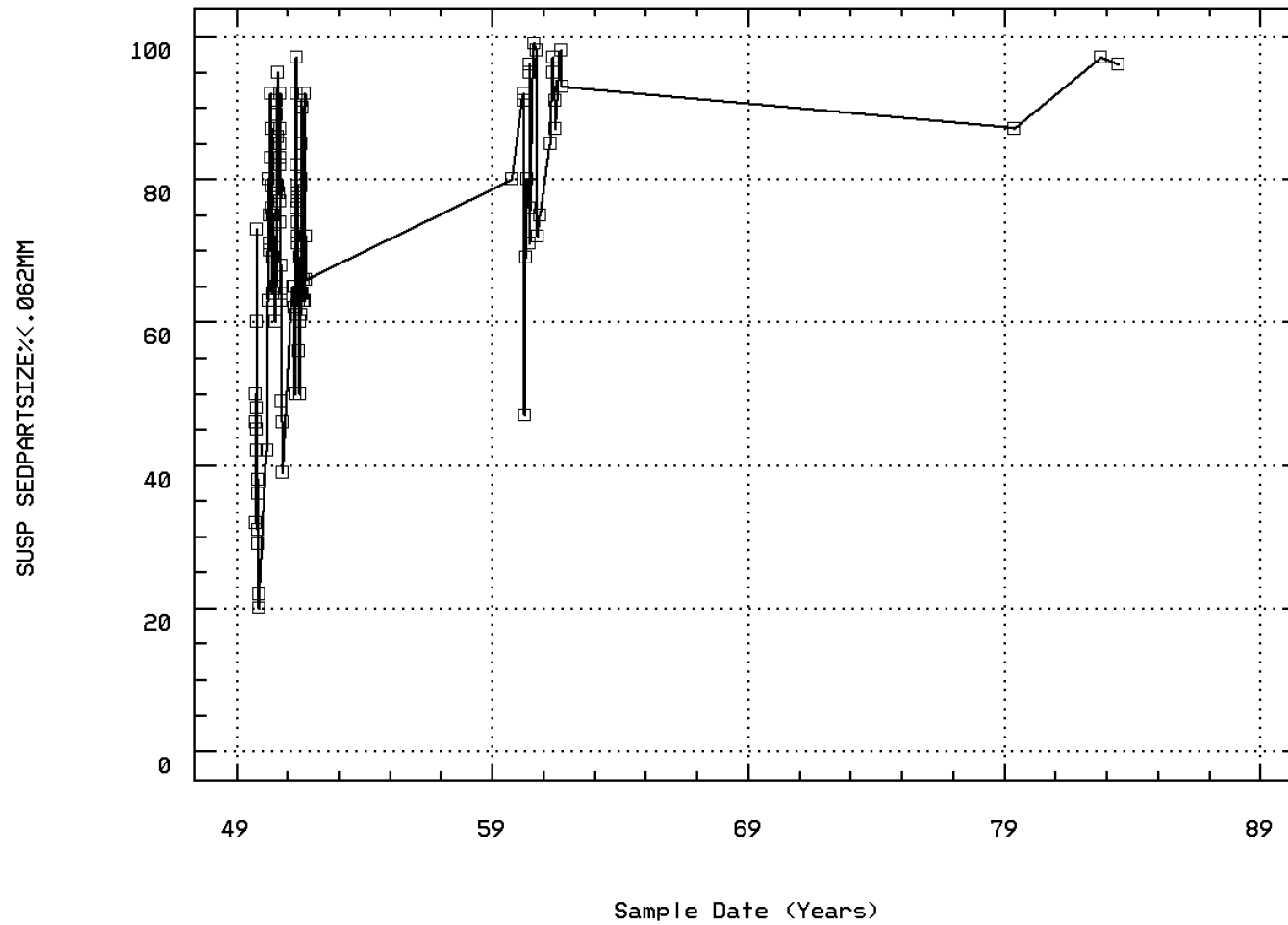
SOLIDS, DISSOLVED-TONS PER ACRE-FT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70331

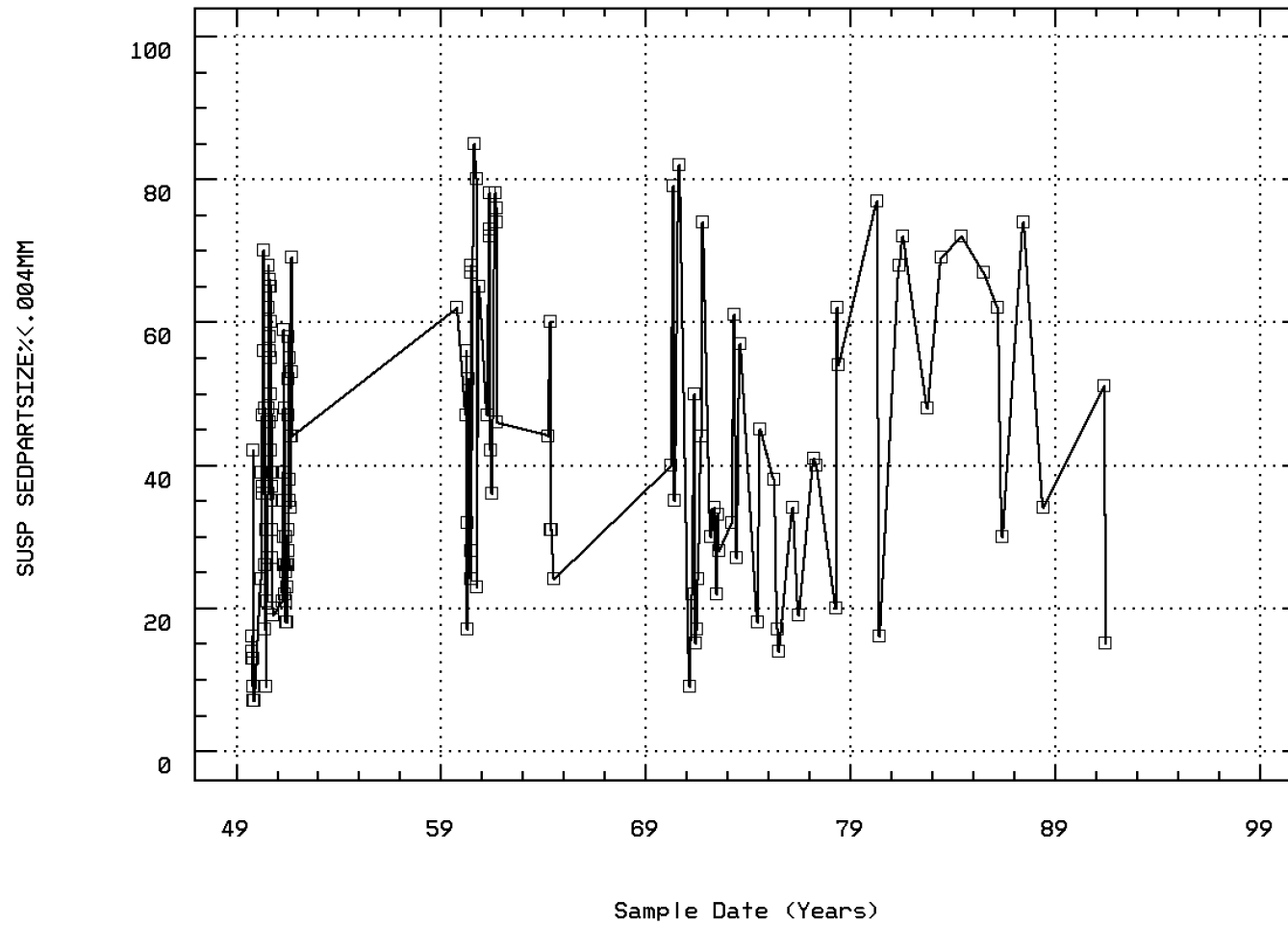
SUSPENDED SED SIEVE DIAMETER,% FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70338

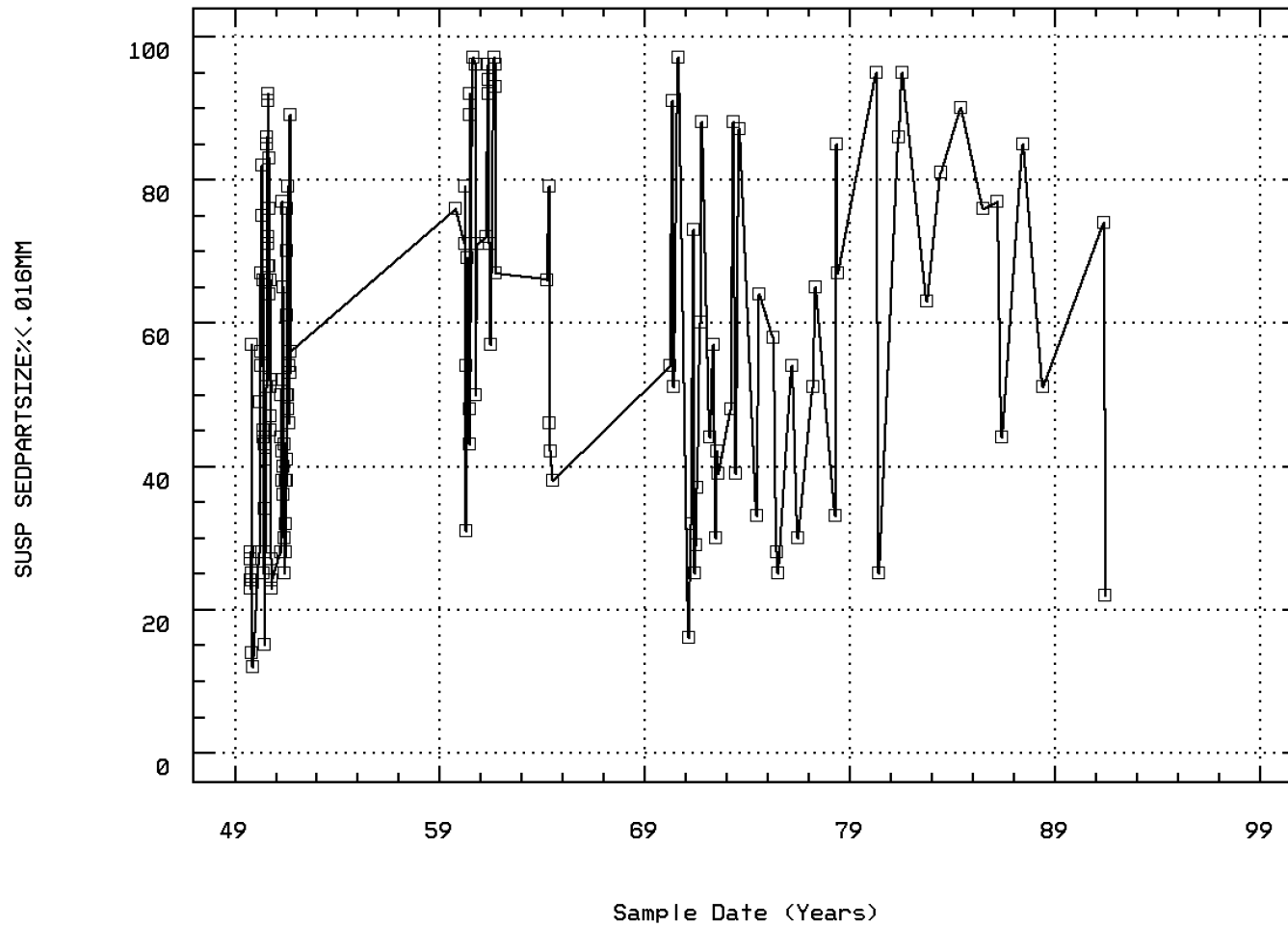
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70340

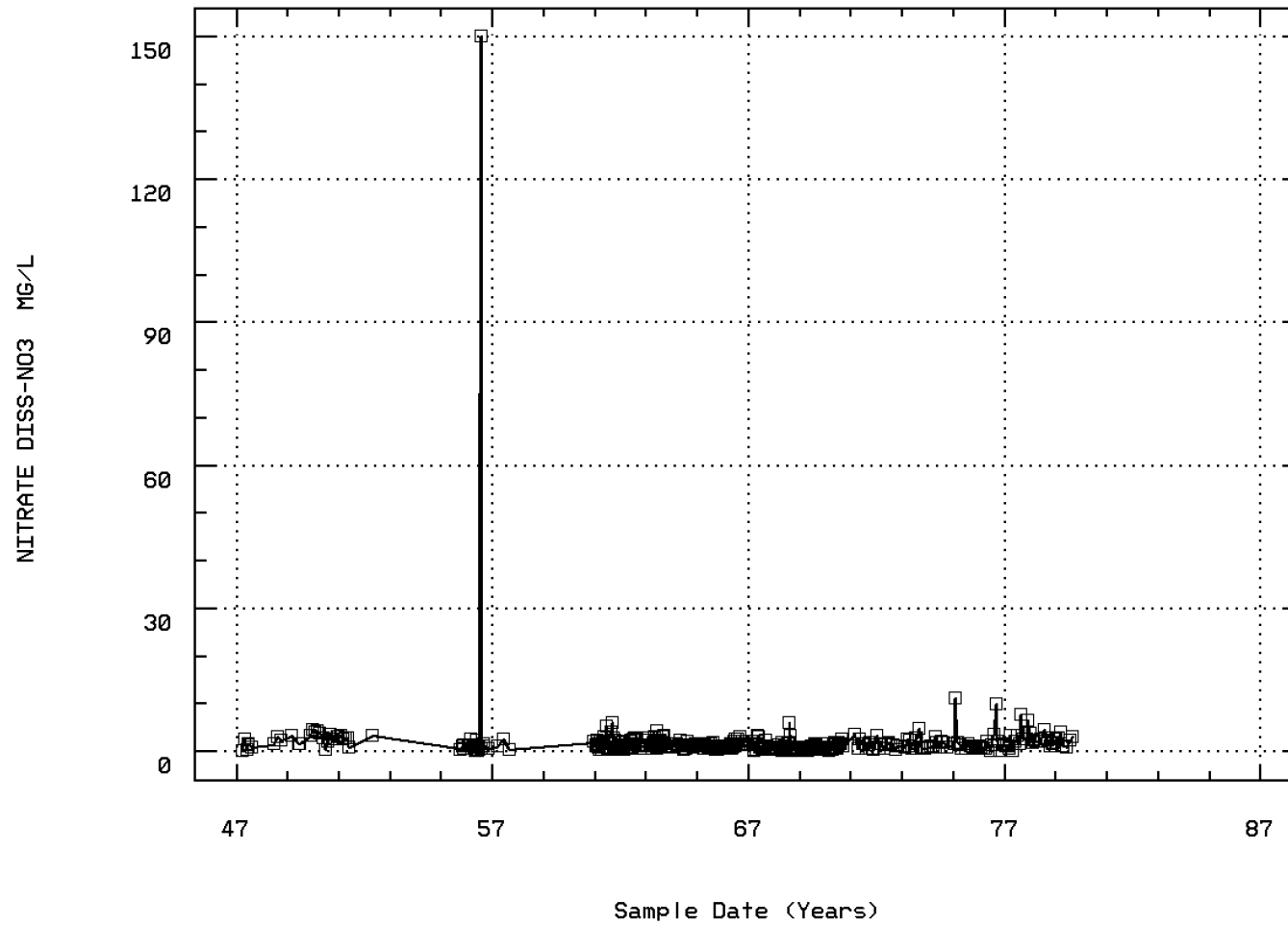
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 71851

NITRATE NITROGEN, DISSOLVED (MG/L AS NO

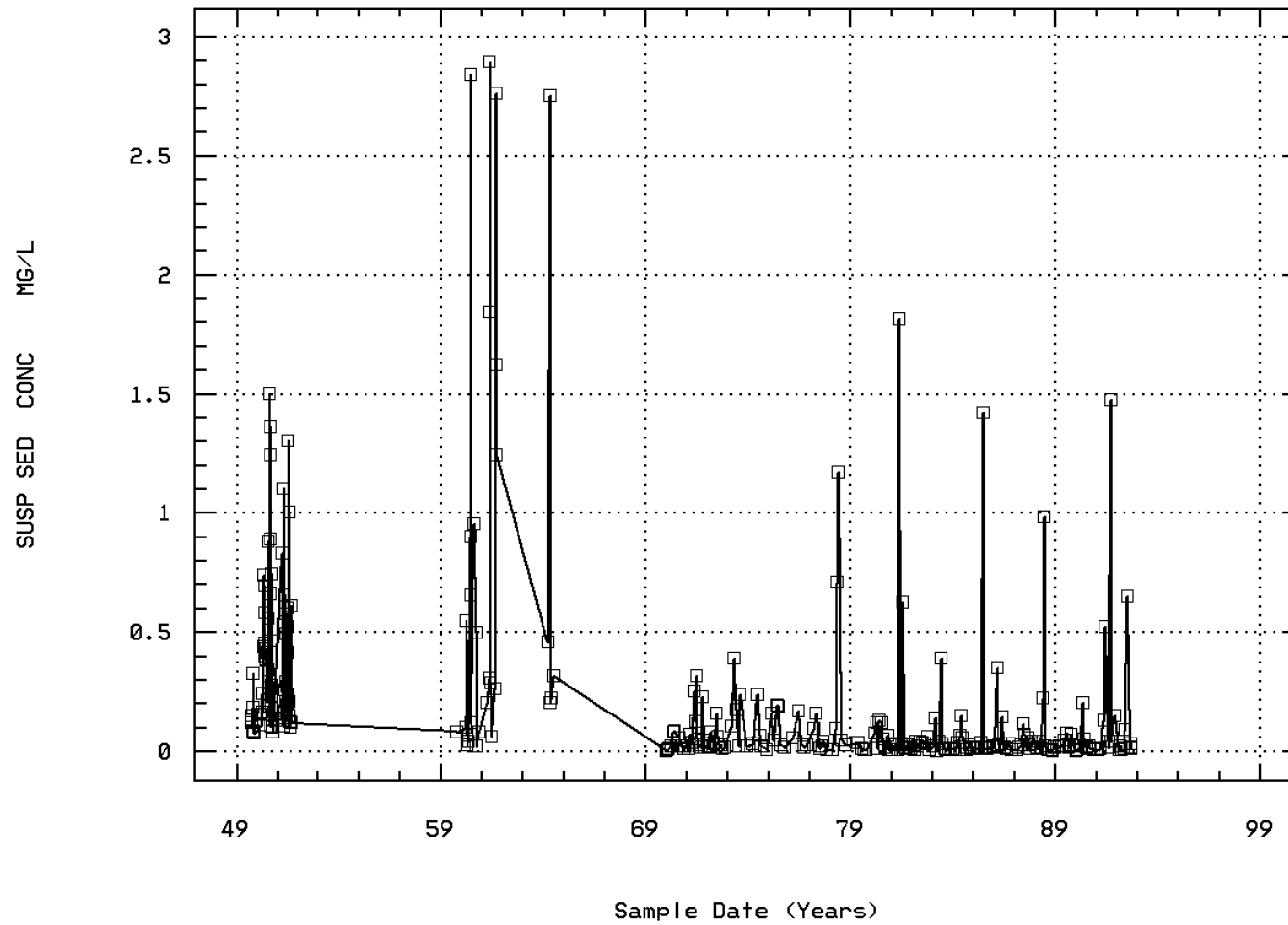


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1

(X 10000)

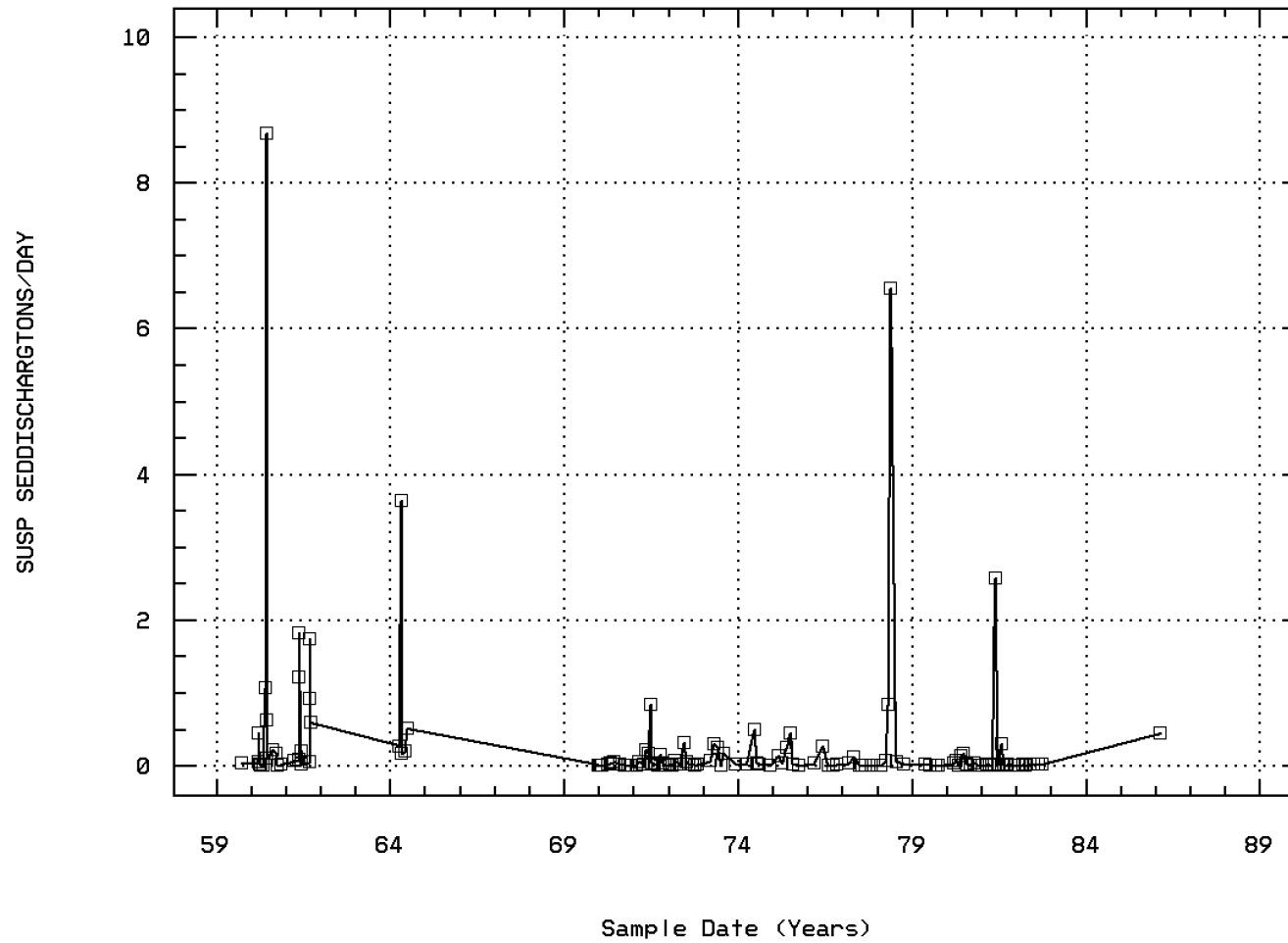


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 80155

SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)

(X 100000)



BIGHORN R AT KANE WYO

Annual Analysis for 1947 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-----|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 3 | 17. | 18. | 21. | 16. | 7. | 2.646 | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 6 | 4685. | 7485. | 20200. | 1680. | 51617510. | 7184.533 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 6 | 571. | 619.167 | 997. | 402. | 44733.767 | 211.504 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 6 | 8.15 | 8.083 | 8.3 | 7.8 | 0.062 | 0.248 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 6 | 8.125 | 8.024 | 8.3 | 7.8 | 0.066 | 0.257 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 6 | 0.008 | 0.009 | 0.016 | 0.005 | 0. | 0.005 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 6 | 122. | 135.5 | 186. | 115. | 801.1 | 28.304 | ** | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 6 | 149. | 165.167 | 227. | 140. | 1197.767 | 34.609 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 6 | 199. | 233.5 | 372. | 174. | 5981.5 | 77.34 | ** | ** | ** | ** |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 6 | 81.5 | 98. | 186. | 56. | 2512.4 | 50.124 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 6 | 53.5 | 62.5 | 98. | 49. | 369.1 | 19.212 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 6 | 16.5 | 18.833 | 31. | 12. | 53.367 | 7.305 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 6 | 12. | 12.167 | 19. | 6. | 18.567 | 4.309 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 6 | 174.5 | 198.333 | 375. | 104. | 9899.867 | 99.498 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 6 | 0.35 | 0.383 | 0.5 | 0.3 | 0.01 | 0.098 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 6 | 16. | 16.667 | 21. | 13. | 10.667 | 3.266 | ** | ** | ** | ** |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 6 | 414. | 465.667 | 766. | 298. | 28768.667 | 169.613 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 6 | 5335. | 7770. | 20400. | 2460. | 43447680. | 6591.485 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 6 | 0.565 | 0.635 | 1.04 | 0.41 | 0.053 | 0.229 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 6 | 1. | 1.05 | 2.5 | 0. | 0.863 | 0.929 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1948 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-----|--------|--------|---------|---------|--------------|-----------|------|------|------|------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 4 | 5135. | 5214.5 | 9920. | 668. | 23377027.667 | 4834.98 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 4 | 919.5 | 903.75 | 1350. | 426. | 166820.25 | 408.436 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 4 | 7.75 | 7.725 | 7.8 | 7.6 | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 4 | 7.747 | 7.717 | 7.8 | 7.6 | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 4 | 0.018 | 0.019 | 0.025 | 0.016 | 0. | 0.004 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 4 | 160. | 153.5 | 201. | 93. | 2486.333 | 49.863 | ** | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 4 | 195. | 187. | 245. | 113. | 3715.333 | 60.954 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 4 | 298. | 304.75 | 452. | 171. | 17487.583 | 132.241 | ** | ** | ** | ** |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 4 | 138. | 151.25 | 251. | 78. | 7094.917 | 84.231 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 4 | 77.5 | 81.75 | 125. | 47. | 1219.583 | 34.923 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 4 | 25. | 24.5 | 35. | 13. | 135. | 11.619 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 4 | 15.5 | 14.75 | 24. | 4. | 115.583 | 10.751 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 4 | 315. | 311. | 474. | 140. | 24630.667 | 156.942 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 4 | 0.45 | 0.45 | 0.6 | 0.3 | 0.017 | 0.129 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 4 | 17. | 17.75 | 24. | 13. | 21.583 | 4.646 | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 4 | 135. | 120. | 150. | 60. | 1800. | 42.426 | ** | ** | ** | ** |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 4 | 682. | 648.5 | 928. | 302. | 89873. | 299.788 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 4 | 5735. | 6235. | 11800. | 1670. | 21133500. | 4597.119 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 4 | 0.925 | 0.88 | 1.26 | 0.41 | 0.166 | 0.408 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 4 | 1.95 | 1.975 | 3. | 1. | 0.749 | 0.866 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1949 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------|-----|--------|----------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 5 | 2770. | 4576. | 12100. | 1650. | 18223280. | 4268.873 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 15 | 1900. | 1911.333 | 2370. | 1360. | 71155.238 | 266.749 | 1534. | 1730. | 2100. | 2370. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 5 | 652. | 708. | 980. | 453. | 56841.5 | 238.415 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1949 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|------------|----------|------|-------|-------|
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 7.5 | 7.46 | 7.8 | 7.1 | 0.073 | 0.27 | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 7.5 | 7.393 | 7.8 | 7.1 | 0.079 | 0.28 | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 5 | 0.032 | 0.04 | 0.079 | 0.016 | 0.001 | 0.025 | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 5 | 136. | 135.2 | 192. | 105. | 1233.7 | 35.124 | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 5 | 166. | 164.8 | 234. | 128. | 1839.2 | 42.886 | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 5 | 231. | 251. | 352. | 154. | 8819. | 93.91 | ** | ** | ** |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 5 | 95. | 115.8 | 210. | 49. | 4575.7 | 67.644 | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 5 | 63. | 64.8 | 90. | 46. | 341.7 | 18.485 | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 5 | 18. | 21.7 | 38. | 9.5 | 152.2 | 12.337 | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 1 | 39. | 39. | 39. | 39. | 0. | 0. | ** | ** | ** |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 5 | 10. | 11.2 | 19. | 5. | 29.7 | 5.45 | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 5 | 178. | 215.6 | 338. | 110. | 10990.8 | 104.837 | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 5 | 0.3 | 0.32 | 0.4 | 0.3 | 0.002 | 0.045 | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 5 | 15. | 15.8 | 19. | 14. | 3.7 | 1.924 | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 2 | 100. | 100. | 200. | 0. | 20000. | 141.421 | ** | ** | ** |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 5 | 454. | 502.6 | 754. | 308. | 36597.8 | 191.306 | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 5 | 3530. | 5012. | 10100. | 3250. | 8488670. | 2913.532 | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 5 | 0.62 | 0.686 | 1.03 | 0.42 | 0.068 | 0.261 | ** | ** | ** |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 14 | 40. | 40.857 | 73. | 20. | 209.055 | 14.459 | 21. | 30.5 | 48.5 |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 14 | 55.5 | 57.857 | 90. | 38. | 262.286 | 16.195 | 38.5 | 43.25 | 68.25 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 13 | 90. | 88. | 100. | 70. | 99.167 | 9.958 | 72. | 81. | 99. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 10 | 96.5 | 94. | 100. | 76. | 58.222 | 7.63 | 76.9 | 91.75 | 99. |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 9 | 13. | 14.889 | 42. | 7. | 113.361 | 10.647 | 7. | 8. | 15. |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 9 | 24. | 26. | 57. | 12. | 165.5 | 12.865 | 12. | 18.5 | 27.5 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 5 | 1.4 | 2.08 | 3.3 | 1. | 1.267 | 1.126 | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 14 | 1240. | 1414.143 | 3240. | 734. | 710747.363 | 843.058 | 734. | 794. | 1555. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1950 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|--------|-------|----------|---------|----------|-------------|----------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 5 | 8.3 | 8.68 | 11.7 | 5.6 | 6.157 | 2.481 | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 14 | 2565. | 3031. | 9780. | 860. | 5679355.538 | 2383.14 | 917. | 1470. | 3562.5 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 55 | 2810. | 3351.6 | 10150. | 860. | 6397459.467 | 2529.32 | 1380. | 1650. | 3330. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 992.5 | 938.417 | 1390. | 355. | 82672.447 | 287.528 | 414.7 | 791.25 | 1152.5 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 12 | 7.85 | 7.808 | 8.1 | 7.5 | 0.032 | 0.178 | 7.53 | 7.625 | 7.9 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 12 | 7.847 | 7.774 | 8.1 | 7.5 | 0.033 | 0.182 | 7.53 | 7.625 | 7.9 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 12 | 0.014 | 0.017 | 0.032 | 0.008 | 0. | 0.007 | 0.009 | 0.013 | 0.024 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 169. | 163.333 | 233. | 89. | 1608.97 | 40.112 | 95.9 | 130.75 | 191.25 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 206. | 199. | 284. | 108. | 2395.273 | 48.942 | 116.4 | 159.5 | 233. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 343.5 | 314.583 | 440. | 119. | 9378.811 | 96.844 | 138.5 | 250.5 | 384.5 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 157. | 151.25 | 230. | 30. | 3687.295 | 60.723 | 42.6 | 113.25 | 206.75 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 88.5 | 83.417 | 118. | 35. | 568.629 | 23.846 | 40.1 | 68.5 | 97.5 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 28. | 25.892 | 39. | 7.7 | 97.614 | 9.88 | 9.29 | 17.75 | 33.75 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 39. | 38.25 | 45. | 33. | 10.568 | 3.251 | 33.3 | 36. | 40. |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 17.5 | 16.167 | 25. | 5. | 34.152 | 5.844 | 5.6 | 12.75 | 19.75 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 315. | 308.75 | 510. | 85. | 13123.295 | 114.557 | 106.6 | 246.75 | 375. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.35 | 0.333 | 0.6 | 0.2 | 0.019 | 0.137 | 0.2 | 0.2 | 0.4 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 12 | 18. | 19.75 | 35. | 11. | 44.023 | 6.635 | 11.6 | 16. | 24.75 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 3 | 110. | 136.667 | 200. | 100. | 3033.333 | 55.076 | ** | ** | ** |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 12 | 710. | 673.25 | 975. | 234. | 45936.568 | 214.328 | 277.8 | 548.5 | 842. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 11 | 3910. | 4196.364 | 6180. | 1990. | 1838725.455 | 1355.996 | 2122. | 3310. | 5240. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.97 | 0.917 | 1.33 | 0.32 | 0.085 | 0.292 | 0.38 | 0.742 | 1.145 |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 46 | 77.5 | 74.957 | 95. | 39. | 178.043 | 13.343 | 56.7 | 68.75 | 83.5 |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 32 | 87.5 | 84.156 | 96. | 52. | 96.523 | 9.825 | 67.3 | 81.75 | 90. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1950 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|-------|-------|
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 32 | 99. | 97.344 | 100. | 84. | 11.007 | 3.318 | 93.3 | 97. | 99. | 100. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 28 | 100. | 99.571 | 100. | 91. | 2.995 | 1.731 | 98.9 | 100. | 100. | 100. |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 38 | 39. | 41.237 | 70. | 9. | 274.078 | 16.555 | 19.9 | 26.75 | 56. | 65.1 |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 39 | 54. | 55.872 | 92. | 15. | 433.641 | 20.824 | 25. | 43. | 71. | 85. |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 2.85 | 2.8 | 4.4 | 0.3 | 1.558 | 1.248 | 0.51 | 2.175 | 3.925 | 4.31 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 46 | 3910. | 4754.087 | 15000. | 788. | 13209430.57 | 3634.478 | 1259. | 2122.5 | 6670. | 9929. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1951 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 30 | 16.7 | 15.69 | 25. | 5. | 27.908 | 5.283 | 8.3 | 11.925 | 19.175 | 22.15 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 11 | 1600. | 3060. | 14500. | 650. | 17553980. | 4189.747 | 720. | 1050. | 2060. | 13020. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 44 | 5080. | 5377.955 | 14500. | 1330. | 14831095.719 | 3851.116 | 1550. | 1822.5 | 7755. | 10500. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 11 | 1120. | 982.818 | 1280. | 444. | 81199.764 | 284.956 | 445.8 | 866. | 1150. | 1258. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 7 | 7.8 | 7.843 | 8.3 | 7.5 | 0.07 | 0.264 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 7 | 7.8 | 7.78 | 8.3 | 7.5 | 0.074 | 0.272 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 7 | 0.016 | 0.017 | 0.032 | 0.005 | 0. | 0.009 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 7 | 198. | 190.143 | 226. | 126. | 1252.476 | 35.39 | ** | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 7 | 242. | 230.286 | 275. | 154. | 1725.571 | 41.54 | ** | ** | ** | ** |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 6 | 0. | 1. | 6. | 0. | 6. | 2.449 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 10 | 356.5 | 328.6 | 445. | 154. | 10708.711 | 103.483 | 154.2 | 244.5 | 405.5 | 443.3 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 7 | 177. | 166.857 | 224. | 30. | 4082.143 | 63.892 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 7 | 91. | 91.714 | 123. | 46. | 599.905 | 24.493 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 7 | 34. | 31.429 | 42. | 10. | 104.619 | 10.228 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 1 | 99. | 99. | 99. | 99. | 0. | 0. | ** | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 6 | 37. | 36.333 | 38. | 33. | 3.067 | 1.751 | ** | ** | ** | ** |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 7 | 19. | 18.286 | 24. | 6. | 35.238 | 5.936 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 7 | 370. | 344. | 440. | 95. | 13847. | 117.673 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 6 | 0.4 | 0.367 | 0.4 | 0.2 | 0.007 | 0.082 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 6 | 12. | 12.833 | 15. | 12. | 1.767 | 1.329 | ** | ** | ** | ** |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 7 | 790. | 732.714 | 906. | 296. | 41598.238 | 203.956 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 7 | 2570. | 3840. | 11600. | 1500. | 12131866.667 | 3483.083 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 7 | 1.07 | 0.994 | 1.23 | 0.4 | 0.077 | 0.277 | ** | ** | ** | ** |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 38 | 72. | 72.342 | 97. | 50. | 136.664 | 11.69 | 59.6 | 63. | 80. | 91.1 |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 28 | 81. | 82.964 | 97. | 66. | 63.813 | 7.988 | 70.6 | 79. | 90. | 93.1 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 28 | 97. | 96.964 | 99. | 91. | 3.221 | 1.795 | 94.9 | 96. | 98. | 99. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 28 | 100. | 99.893 | 100. | 98. | 0.173 | 0.416 | 99.9 | 100. | 100. | 100. |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 31 | 34. | 36.129 | 69. | 18. | 185.783 | 13.63 | 21. | 26. | 47. | 57.4 |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 31 | 46. | 48.677 | 89. | 25. | 273.959 | 16.552 | 28.4 | 38. | 56. | 76.8 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 6 | 2.6 | 2.4 | 3.1 | 0.7 | 0.764 | 0.874 | ** | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 38 | 3520. | 4273.368 | 13000. | 968. | 9981515.482 | 3159.354 | 1169. | 1615. | 5812.5 | 10100. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1952 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|--------|---------|---------|------------|-----------|-------|--------|-------|-------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 12 | 1315. | 1612. | 4380. | 804. | 949117.091 | 974.226 | 844.8 | 995. | 1905. | 3750. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 1070. | 999.25 | 1210. | 547. | 48332.386 | 219.846 | 563.8 | 883.75 | 1155. | 1195. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 1 | 125. | 125. | 125. | 125. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1952 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|-------|--------|-------|
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 1 | 153. | 153. | 153. | 153. | 0. | 0. | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 1 | 204. | 204. | 204. | 204. | 0. | 0. | ** | ** | ** | ** |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 1 | 79. | 79. | 79. | 79. | 0. | 0. | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 1 | 56. | 56. | 56. | 56. | 0. | 0. | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 10 | 96.5 | 95.6 | 114. | 71. | 163.6 | 12.791 | 72.4 | 85.75 | 104.75 | 113.6 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 1 | 147. | 147. | 147. | 147. | 0. | 0. | ** | ** | ** | ** |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 11 | 762. | 736.455 | 890. | 410. | 17675.473 | 132.949 | 446.6 | 699. | 824. | 878.2 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 11 | 2560. | 2577.273 | 3270. | 1790. | 244561.818 | 494.532 | 1828. | 2110. | 3050. | 3260. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 11 | 1.04 | 1.002 | 1.21 | 0.56 | 0.032 | 0.18 | 0.61 | 0.95 | 1.12 | 1.194 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 1 | 3.3 | 3.3 | 3.3 | 3.3 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1953 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 13 | 2120. | 3037.692 | 9260. | 1020. | 6916735.897 | 2629.969 | 1040. | 1550. | 3250. | 8836. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 13 | 945. | 900.538 | 1220. | 526. | 45601.436 | 213.545 | 546.4 | 737.5 | 999.5 | 1204. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 7.5 | 7.5 | 7.9 | 7. | 0.105 | 0.324 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 7.5 | 7.396 | 7.9 | 7. | 0.119 | 0.344 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 5 | 0.032 | 0.04 | 0.1 | 0.013 | 0.001 | 0.034 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 1 | 118. | 118. | 118. | 118. | 0. | 0. | ** | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 1 | 144. | 144. | 144. | 144. | 0. | 0. | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 5 | 240. | 248.8 | 304. | 197. | 2536.7 | 50.366 | ** | ** | ** | ** |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 1 | 87. | 87. | 87. | 87. | 0. | 0. | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 5 | 75. | 70.4 | 81. | 58. | 122.8 | 11.082 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 5 | 15. | 18. | 25. | 12. | 42. | 6.481 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 12 | 87.5 | 85.75 | 129. | 35. | 812.568 | 28.506 | 35. | 76.5 | 100. | 127.2 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 4 | 1.65 | 1.675 | 2.4 | 1. | 0.529 | 0.727 | ** | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 4 | 33.5 | 33. | 41. | 24. | 68.667 | 8.287 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 4 | 3.65 | 3.7 | 4.7 | 2.8 | 0.647 | 0.804 | ** | ** | ** | ** |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 1 | 162. | 162. | 162. | 162. | 0. | 0. | ** | ** | ** | ** |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 12 | 662. | 645.417 | 868. | 364. | 21518.992 | 146.694 | 374.8 | 609. | 709. | 859.6 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 3915. | 4386.667 | 10000. | 1730. | 5813278.788 | 2411.074 | 1904. | 2717.5 | 5087.5 | 9418. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.9 | 0.878 | 1.18 | 0.5 | 0.04 | 0.199 | 0.512 | 0.828 | 0.965 | 1.168 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1955 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-------------|-----------|-------|---------|--------|-------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 10 | 1996.5 | 2966.3 | 6950. | 874. | 4587626.011 | 2141.874 | 913.2 | 1355.25 | 4387.5 | 6891. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 1170. | 1083.4 | 1370. | 700. | 57930.044 | 240.687 | 704.9 | 798.5 | 1260. | 1365. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 4 | 7.9 | 7.875 | 8. | 7.7 | 0.016 | 0.126 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 4 | 7.9 | 7.861 | 8. | 7.7 | 0.016 | 0.127 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 4 | 0.013 | 0.014 | 0.02 | 0.01 | 0. | 0.004 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 4 | 188. | 191.25 | 213. | 176. | 244.917 | 15.65 | ** | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 4 | 229.5 | 233.25 | 260. | 214. | 375.583 | 19.38 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 10 | 350. | 346.8 | 432. | 234. | 4619.733 | 67.969 | 235. | 295. | 409.5 | 430.8 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 4 | 204. | 198.5 | 216. | 170. | 399. | 19.975 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 10 | 97. | 105.8 | 217. | 67. | 1808.178 | 42.523 | 67.1 | 83. | 112.75 | 207.1 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 10 | 30.5 | 29.2 | 44. | 16. | 71.733 | 8.47 | 16.2 | 21. | 34.25 | 43.1 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1955 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|-----|--------|-------|---------|---------|-------------|-----------|-------|--------|--------|--------|
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 10 | 119.5 | 108.7 | 141. | 54. | 1228.9 | 35.056 | 54.7 | 64. | 139.25 | 140.9 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 10 | 2.6 | 2.39 | 3.1 | 1.3 | 0.359 | 0.599 | 1.34 | 1.775 | 2.9 | 3.08 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 10 | 40. | 37.7 | 45. | 27. | 30.678 | 5.539 | 27.3 | 34.5 | 41. | 44.6 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 10 | 4.15 | 4.58 | 8. | 3. | 2.226 | 1.492 | 3.04 | 3.4 | 5.425 | 7.75 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 4 | 21.5 | 22. | 25. | 20. | 4.667 | 2.16 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 4 | 427.5 | 425. | 465. | 380. | 1716.667 | 41.433 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 4 | 0.5 | 0.525 | 0.6 | 0.5 | 0.002 | 0.05 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 4 | 10.15 | 10.55 | 13. | 8.9 | 3.497 | 1.87 | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 4 | 155. | 155. | 180. | 130. | 433.333 | 20.817 | ** | ** | ** | ** |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 10 | 834. | 834.9 | 1420. | 483. | 75582.989 | 274.924 | 486.1 | 574. | 980. | 1379. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 10 | 4810. | 5691. | 10200. | 2380. | 7529587.778 | 2744.009 | 2446. | 3482.5 | 8097.5 | 10145. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 10 | 1.135 | 1.136 | 1.93 | 0.66 | 0.139 | 0.373 | 0.664 | 0.783 | 1.333 | 1.874 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 4 | 0.7 | 0.75 | 1.3 | 0.3 | 0.197 | 0.443 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1956 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|---------|---------|--------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 24 | 2105.5 | 2267.625 | 4576. | 860. | 1210683.462 | 1100.311 | 872. | 1558.25 | 2753.25 | 4078.5 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 24 | 935.5 | 904.167 | 1220. | 460. | 47967.71 | 219.015 | 518.5 | 737.75 | 1080. | 1155. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 24 | 7.8 | 7.8 | 8.1 | 7.5 | 0.027 | 0.164 | 7.6 | 7.625 | 7.9 | 8.05 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 24 | 7.8 | 7.771 | 8.1 | 7.5 | 0.028 | 0.167 | 7.6 | 7.625 | 7.9 | 8.05 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 24 | 0.016 | 0.017 | 0.032 | 0.008 | 0. | 0.006 | 0.009 | 0.013 | 0.024 | 0.025 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 23 | 157. | 156.522 | 192. | 100. | 478.806 | 21.882 | 124.6 | 148. | 172. | 186. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 24 | 191.5 | 187.708 | 234. | 116. | 916.998 | 30.282 | 135. | 175.5 | 209.5 | 225.5 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 24 | 303. | 294.125 | 392. | 152. | 4276.897 | 65.398 | 184. | 254. | 338.5 | 374. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 24 | 136.5 | 136. | 213. | 57. | 1927.826 | 43.907 | 69. | 100. | 168.5 | 197.5 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 24 | 80. | 77.333 | 96. | 43. | 219.449 | 14.814 | 55. | 64.5 | 91. | 95. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 24 | 26.5 | 23.675 | 38. | 0.2 | 84.344 | 9.184 | 11. | 15.75 | 29. | 34. |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 24 | 87. | 82.292 | 120. | 30. | 764.303 | 27.646 | 33.5 | 62.75 | 105.75 | 111. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 24 | 2.25 | 2.067 | 2.7 | 1. | 0.285 | 0.534 | 1.1 | 1.75 | 2.5 | 2.6 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 24 | 38. | 37. | 46. | 27. | 23.217 | 4.818 | 28.5 | 35. | 40.75 | 41.5 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 21 | 3.6 | 3.257 | 4.5 | 1.2 | 1.064 | 1.031 | 1.46 | 2.35 | 4.05 | 4.46 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 24 | 16. | 14.708 | 22. | 4. | 30.824 | 5.552 | 6. | 10.75 | 19.5 | 21. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 24 | 305. | 292.792 | 425. | 117. | 8473.389 | 92.051 | 131. | 229.5 | 363.75 | 407.5 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 21 | 0.3 | 0.352 | 0.5 | 0.2 | 0.012 | 0.108 | 0.2 | 0.3 | 0.45 | 0.5 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 21 | 10. | 10.381 | 14. | 7.9 | 3.08 | 1.755 | 8.16 | 9.15 | 11. | 13.8 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 24 | 120. | 122.5 | 180. | 40. | 1219.565 | 34.922 | 75. | 100. | 157.5 | 165. |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 24 | 650.5 | 626.208 | 882. | 292. | 28097.911 | 167.624 | 335.5 | 498.5 | 753.75 | 822. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 24 | 3465. | 3449.583 | 5320. | 1710. | 1172360.688 | 1082.756 | 1765. | 2735. | 4297.5 | 5035. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 24 | 0.885 | 0.851 | 1.2 | 0.4 | 0.052 | 0.227 | 0.455 | 0.678 | 1.025 | 1.115 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 20 | 0.85 | 0.885 | 150. | 0. | 1111.647 | 33.341 | 0.01 | 0.325 | 1.525 | 2.49 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1957 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------|-------------------|-----|--------|--------|---------|---------|-------------|-----------|-------|--------|---------|-------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 20 | 2540. | 3612.5 | 9610. | 1020. | 6860777.632 | 2619.309 | 1065. | 1430. | 5850. | 7881. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 2 | 6.5 | 6.5 | 10. | 3. | 24.5 | 4.95 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 20 | 874. | 881.55 | 1430. | 588. | 48227.839 | 219.608 | 593.1 | 698.75 | 1036.25 | 1158. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 20 | 7.65 | 7.655 | 8.2 | 6.9 | 0.084 | 0.289 | 7.4 | 7.5 | 7.8 | 8.09 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 20 | 7.647 | 7.553 | 8.2 | 6.9 | 0.095 | 0.308 | 7.4 | 7.5 | 7.8 | 8.09 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1957 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-----|--------|--------|---------|---------|--------------|-----------|-------|--------|--------|-------|
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 20 | 0.023 | 0.028 | 0.126 | 0.006 | 0.001 | 0.025 | 0.008 | 0.016 | 0.032 | 0.04 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 20 | 157. | 158.7 | 246. | 118. | 905.484 | 30.091 | 124.3 | 133.75 | 179.75 | 191.3 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 20 | 192. | 193.6 | 300. | 144. | 1348.147 | 36.717 | 151.4 | 163. | 219.5 | 233.2 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 20 | 287.5 | 289.75 | 524. | 191. | 6558.513 | 80.985 | 194.5 | 224. | 341.75 | 383. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 20 | 129.5 | 131.05 | 278. | 69. | 2693.524 | 51.899 | 73.7 | 87. | 166. | 191.7 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 20 | 74. | 77.65 | 168. | 52. | 635.292 | 25.205 | 53.4 | 61. | 85. | 98.6 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 20 | 22.5 | 23.4 | 42. | 15. | 56.674 | 7.528 | 15.1 | 17. | 28.5 | 34. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 20 | 75. | 77.68 | 124. | 14.6 | 751.711 | 27.417 | 49.1 | 59.25 | 98. | 117. |
| 00931p | SODIUM ADSORPTION RATIO | 20 | 2. | 2. | 2.8 | 0.3 | 0.321 | 0.567 | 1.51 | 1.65 | 2.525 | 2.69 |
| 00932p | SODIUM, PERCENT | 20 | 38. | 36.75 | 43. | 6. | 58.408 | 7.643 | 34.1 | 36. | 40. | 42. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 3 | 3.9 | 4.067 | 4.7 | 3.6 | 0.323 | 0.569 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 20 | 14. | 13.25 | 20. | 7. | 15.355 | 3.919 | 8.1 | 9. | 15. | 19.8 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 20 | 282.5 | 287.75 | 556. | 165. | 10055.145 | 100.275 | 169. | 198.25 | 351. | 404.5 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 3 | 0.4 | 0.4 | 0.4 | 0.4 | 0. | 0. | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 3 | 14. | 14. | 17. | 11. | 9. | 3. | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 20 | 95. | 117. | 370. | 60. | 4474.737 | 66.893 | 71. | 80. | 137.5 | 168. |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 20 | 631. | 618.3 | 1090. | 385. | 30926.537 | 175.859 | 395. | 466.25 | 720.25 | 822.8 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 20 | 3695. | 5507.5 | 18500. | 2020. | 16263230.263 | 4032.77 | 2215. | 2670. | 6890. | 9984. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 20 | 0.855 | 0.84 | 1.48 | 0.52 | 0.058 | 0.24 | 0.534 | 0.63 | 0.978 | 1.12 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 3 | 0.9 | 1.167 | 2.4 | 0.2 | 1.263 | 1.124 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1959 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 1 | 10.6 | 10.6 | 10.6 | 10.6 | 0. | 0. | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 1 | 1300. | 1300. | 1300. | 1300. | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 1 | 1300. | 1300. | 1300. | 1300. | 0. | 0. | ** | ** | ** | ** |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 1 | 80. | 80. | 80. | 80. | 0. | 0. | ** | ** | ** | ** |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 1 | 86. | 86. | 86. | 86. | 0. | 0. | ** | ** | ** | ** |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 1 | 76. | 76. | 76. | 76. | 0. | 0. | ** | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 1 | 805. | 805. | 805. | 805. | 0. | 0. | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 1 | 2830. | 2830. | 2830. | 2830. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1960 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12 | 15.3 | 14.308 | 22.2 | 1.7 | 46.004 | 6.783 | 2.03 | 11. | 20.3 | 21.87 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 15 | 1190. | 2305.667 | 11300. | 609. | 7718816.952 | 2778.276 | 633. | 748. | 3160. | 7148. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 13 | 1210. | 2563.615 | 11300. | 724. | 8464602.256 | 2909.399 | 733.6 | 808. | 3340. | 8532. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 2 | 7.5 | 7.5 | 8. | 7. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 2 | 1370. | 1370. | 1440. | 1300. | 9800. | 98.995 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 2 | 7.75 | 7.75 | 7.9 | 7.6 | 0.045 | 0.212 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 2 | 7.725 | 7.725 | 7.9 | 7.6 | 0.046 | 0.215 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 2 | 0.019 | 0.019 | 0.025 | 0.013 | 0. | 0.009 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 1 | 249. | 249. | 249. | 249. | 0. | 0. | ** | ** | ** | ** |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 2 | 289.5 | 289.5 | 303. | 276. | 364.5 | 19.092 | ** | ** | ** | ** |
| 00445p | CARBONATE ION (MG/L AS CO3) | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 2 | 489. | 489. | 521. | 457. | 2048. | 45.255 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1960 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|----------|-----------|---------|---------------------|--------------|-----------|--------|--------|---------|--------|
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 2 | 252. | 252. | 273. | 231. | 882. | 29.698 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 2 | 133. | 133. | 141. | 125. | 128. | 11.314 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 2 | 38. | 38. | 41. | 35. | 18. | 4.243 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 2 | 125. | 125. | 132. | 118. | 98. | 9.899 | ** | ** | ** | ** |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 2 | 2.45 | 2.45 | 2.5 | 2.4 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 2 | 5.75 | 5.75 | 6. | 5.5 | 0.125 | 0.354 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 2 | 25. | 25. | 26. | 24. | 2. | 1.414 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 2 | 491. | 491. | 525. | 457. | 2312. | 48.083 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 2 | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 2 | 9.6 | 9.6 | 10. | 9.2 | 0.32 | 0.566 | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 2 | 185. | 185. | 190. | 180. | 50. | 7.071 | ** | ** | ** | ** |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 2 | 1036. | 1036. | 1100. | 972. | 8192. | 90.51 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 2 | 1755.005 | 1755.005 | 1810. | 1700.01 | 6048.9 | 77.775 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 2 | 1.41 | 1.41 | 1.5 | 1.32 | 0.016 | 0.127 | ** | ** | ** | ** |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 13 | 80. | 81.615 | 99. | 47. | 232.756 | 15.256 | 55.8 | 71.5 | 95.5 | 98.6 |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 13 | 85. | 86.231 | 100. | 56. | 164.026 | 12.807 | 63.6 | 78. | 97.5 | 99.6 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 12 | 98.5 | 97.083 | 100. | 92. | 8.992 | 2.999 | 92.3 | 94. | 99.75 | 100. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 9 | 100. | 99.889 | 100. | 99. | 0.111 | 0.333 | 99. | 100. | 100. | 100. |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 13 | 52. | 49.538 | 85. | 17. | 525.936 | 22.933 | 19.4 | 26. | 67.5 | 83. |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 13 | 71. | 68.462 | 97. | 31. | 474.436 | 21.782 | 35.8 | 49. | 90.5 | 96.6 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 2 | 1.55 | 1.55 | 2.1 | 1. | 0.605 | 0.778 | ** | ** | ** | ** |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 13 | 1160. | 5250.846 | 28400. | 205. | 60033761.141 | 7748.146 | 217. | 519.5 | 7755. | 20860. |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 13 | 9900. | 87391.154 | 867000. | 459.55856316567.474 | 236339.41 | 465.4 | 1250.5 | 53200. | 562600. | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1961 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|----------|---------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 10 | 16.95 | 15.49 | 22.2 | 7.2 | 26.005 | 5.1 | 7.48 | 10.825 | 19.15 | 22.15 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 39 | 1210. | 1404.051 | 3485. | 370. | 673985.524 | 820.966 | 534. | 724. | 2090. | 2510. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 1925. | 1765. | 2510. | 660. | 444627.778 | 666.804 | 703. | 1180. | 2355. | 2502. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 28 | 5. | 4.893 | 12. | 0. | 7.21 | 2.685 | 0. | 3.25 | 6. | 8. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 29 | 1240. | 1252.862 | 3030. | 577. | 175869.98 | 419.369 | 729. | 1070. | 1355. | 1490. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 29 | 7.7 | 7.645 | 8.1 | 7.1 | 0.041 | 0.203 | 7.4 | 7.5 | 7.8 | 7.9 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 29 | 7.7 | 7.596 | 8.1 | 7.1 | 0.044 | 0.209 | 7.4 | 7.5 | 7.8 | 7.9 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 29 | 0.02 | 0.025 | 0.079 | 0.008 | 0. | 0.014 | 0.013 | 0.016 | 0.032 | 0.04 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 29 | 232. | 227.966 | 283. | 163. | 997.32 | 31.58 | 180. | 209.5 | 249. | 276. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 29 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 29 | 396. | 426.172 | 1450. | 214. | 44388.791 | 210.686 | 262. | 351. | 446. | 465. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 29 | 214. | 239.069 | 1280. | 80. | 43109.138 | 207.627 | 114. | 166.5 | 239. | 260. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 29 | 105. | 117.034 | 482. | 63. | 5373.463 | 73.304 | 78. | 93. | 114.5 | 128. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 29 | 34. | 32.655 | 60. | 14. | 84.163 | 9.174 | 18. | 27. | 38. | 43. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 29 | 123. | 126.138 | 281. | 40. | 2061.766 | 45.407 | 62. | 103. | 148. | 171. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 29 | 2.6 | 2.638 | 3.5 | 1.2 | 0.341 | 0.584 | 1.7 | 2.35 | 3.1 | 3.4 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 29 | 4.8 | 5.159 | 13. | 2. | 4.775 | 2.185 | 2.9 | 3.7 | 5.6 | 8.3 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 29 | 22. | 19.69 | 30. | 5. | 38.722 | 6.223 | 8. | 16. | 25. | 26. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 29 | 442. | 468.138 | 1770. | 154. | 76662.552 | 276.88 | 229. | 356.5 | 495.5 | 595. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 29 | 0.5 | 0.469 | 0.6 | 0.2 | 0.01 | 0.1 | 0.3 | 0.4 | 0.5 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 29 | 11. | 11.8 | 24. | 7.6 | 11.879 | 3.447 | 8.9 | 9.45 | 13. | 17. |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 29 | 150. | 150.69 | 320. | 10. | 4220.936 | 64.969 | 90. | 110. | 180. | 220. |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 29 | 883. | 933.966 | 2860. | 385. | 176243.606 | 419.814 | 505. | 762. | 1004.5 | 1110. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 29 | 2270.01 | 2987.598 | 14670.1 | 1110.01 | 6220919.519 | 2494.177 | 1300.01 | 1800.01 | 3560.005 | 4630.01 |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 29 | 1.2 | 1.271 | 3.89 | 0.52 | 0.326 | 0.571 | 0.69 | 1.035 | 1.365 | 1.51 |
| 70331 | SUSPENDED SED SIEVE DIAMETER.% FINER THAN .062MM | 10/01/49-06/06/83 | 10 | 96. | 93.9 | 98. | 85. | 22.989 | 4.795 | 85.2 | 90. | 98. | 98. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1961 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------------|-----------|-------|--------|---------|---------|
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 10 | 97.5 | 96. | 98. | 88. | 10. | 3.162 | 88.6 | 94.75 | 98. | 98. |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 10 | 99. | 98.6 | 100. | 95. | 1.822 | 1.35 | 95.3 | 98.75 | 99. | 99.9 |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 9 | 100. | 100. | 100. | 100. | 0. | 0. | 100. | 100. | 100. | 100. |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 10 | 72.5 | 62.2 | 78. | 36. | 292.178 | 17.093 | 36.6 | 45. | 76.5 | 78. |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 10 | 92.5 | 83.5 | 97. | 57. | 225.611 | 15.02 | 58. | 70. | 96. | 96.9 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 28 | 1.2 | 1.632 | 5.8 | 0.2 | 1.996 | 1.413 | 0.3 | 0.625 | 2.15 | 4.02 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 28 | 0. | 4.286 | 20. | 0. | 32.804 | 5.727 | 0. | 0. | 10. | 10. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 10 | 7735. | 11469.7 | 28900. | 597. | 118360647.567 | 10879.368 | 740.3 | 2480. | 20700. | 28770. |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 10 | 39200. | 66928. | 182000. | 1950. | 5067178706.667 | 71184.118 | 2224. | 6272.5 | 134250. | 181200. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1962 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|---------|--------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 32 | 2183. | 2574.781 | 6000. | 747. | 2067646.628 | 1437.931 | 1090.9 | 1584.5 | 3071.25 | 5376.8 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 30 | 5. | 5.067 | 7. | 3. | 0.754 | 0.868 | 4. | 5. | 5.25 | 6. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 32 | 989.5 | 956.781 | 1460. | 511. | 41725.273 | 204.268 | 605.1 | 877.25 | 1057.5 | 1147. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 32 | 7.55 | 7.491 | 7.9 | 7. | 0.056 | 0.237 | 7.2 | 7.3 | 7.675 | 7.8 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 32 | 7.547 | 7.427 | 7.9 | 7. | 0.061 | 0.246 | 7.2 | 7.3 | 7.675 | 7.8 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 32 | 0.028 | 0.037 | 0.1 | 0.013 | 0. | 0.022 | 0.016 | 0.021 | 0.05 | 0.063 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 32 | 205.5 | 201.5 | 257. | 136. | 921.29 | 30.353 | 148.8 | 188. | 223.75 | 232.8 |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 32 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 32 | 322.5 | 314.813 | 479. | 171. | 4791.19 | 69.218 | 199.8 | 284.75 | 348.5 | 383.2 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 32 | 151. | 149.594 | 303. | 59. | 2557.991 | 50.577 | 76.3 | 117.25 | 169.5 | 189.3 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 30 | 84. | 81.367 | 115. | 46. | 244.861 | 15.648 | 55.2 | 71.75 | 91. | 98.8 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 30 | 26. | 26.2 | 47. | 13. | 48.51 | 6.965 | 15. | 23. | 30.25 | 32. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 32 | 95. | 90.75 | 156. | 40. | 609.419 | 24.686 | 50.8 | 79.5 | 100. | 121.8 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 32 | 2.3 | 2.2 | 3.2 | 1.3 | 0.17 | 0.413 | 1.56 | 2. | 2.375 | 2.74 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 30 | 3.85 | 3.8 | 5. | 2.4 | 0.655 | 0.809 | 2.42 | 3.2 | 4.45 | 4.98 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 31 | 14. | 13.935 | 26. | 5. | 18.662 | 4.32 | 8. | 12. | 17. | 19. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 32 | 326.5 | 312.688 | 563. | 136. | 8202.48 | 90.568 | 170.2 | 273. | 354.25 | 393.8 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 30 | 0.4 | 0.363 | 0.5 | 0.2 | 0.007 | 0.081 | 0.21 | 0.3 | 0.4 | 0.49 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 30 | 11. | 11.693 | 17. | 9.5 | 3.258 | 1.805 | 9.73 | 10.75 | 12.25 | 14.8 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 30 | 110. | 123.667 | 270. | 30. | 3086.092 | 55.553 | 61. | 100. | 140. | 250. |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 31 | 680. | 665.839 | 1110. | 343. | 24243.006 | 155.702 | 410. | 611. | 740. | 822.2 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 31 | 3500.01 | 4283.558 | 10760.1 | 1630.01 | 4589630.188 | 2142.342 | 2148.01 | 3020.01 | 5370. | 7488. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 31 | 0.92 | 0.905 | 1.51 | 0.47 | 0.045 | 0.212 | 0.556 | 0.83 | 1.01 | 1.116 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 30 | 1.1 | 1.2 | 2.7 | 0.2 | 0.437 | 0.661 | 0.41 | 0.7 | 1.55 | 2.3 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 30 | 10. | 11.667 | 70. | 0. | 297.126 | 17.237 | 0. | 0. | 12.5 | 38. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1963 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|--------|
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 26 | 1680.5 | 2679.731 | 11820. | 753. | 6711900.925 | 2590.734 | 879.9 | 1316.5 | 2494.5 | 6974.9 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 24 | 7. | 6.5 | 11. | 2. | 6.348 | 2.519 | 3. | 4.25 | 8. | 10.5 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 26 | 1018.5 | 990.885 | 1400. | 523. | 55358.106 | 235.283 | 628.9 | 876. | 1160. | 1353. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 26 | 7.5 | 7.519 | 8. | 7.2 | 0.036 | 0.19 | 7.3 | 7.375 | 7.7 | 7.7 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 26 | 7.5 | 7.482 | 8. | 7.2 | 0.037 | 0.194 | 7.3 | 7.375 | 7.7 | 7.7 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 26 | 0.032 | 0.033 | 0.063 | 0.01 | 0. | 0.013 | 0.02 | 0.02 | 0.042 | 0.05 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 26 | 207.5 | 203.308 | 238. | 139. | 756.862 | 27.511 | 159.7 | 182.25 | 226.25 | 236.3 |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 26 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 26 | 328.5 | 323. | 473. | 181. | 5607.36 | 74.882 | 209.5 | 279. | 373.75 | 423.3 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1963 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|-----|---------|----------|---------|---------|--------------|-----------|---------|---------|----------|-------|
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 26 | 160.5 | 156.308 | 279. | 61. | 3071.182 | 55.418 | 78.2 | 124.75 | 193. | 236.8 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 26 | 86.5 | 84.692 | 130. | 51. | 341.102 | 18.469 | 56. | 71.75 | 94. | 114. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 26 | 28.5 | 27.115 | 43. | 13. | 60.826 | 7.799 | 15.1 | 22.75 | 33. | 37. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 26 | 95.5 | 94.731 | 155. | 37. | 902.925 | 30.049 | 50.2 | 75.25 | 112.75 | 137.4 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 26 | 2.3 | 2.254 | 3.2 | 1.2 | 0.256 | 0.506 | 1.48 | 1.9 | 2.525 | 3.03 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 26 | 4.05 | 4.158 | 6.3 | 2.3 | 0.951 | 0.975 | 2.98 | 3.5 | 4.775 | 5.86 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 26 | 14.5 | 13.615 | 22. | 3. | 26.406 | 5.139 | 6.1 | 9.5 | 17.25 | 19.9 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 26 | 330.5 | 331.846 | 528. | 136. | 10977.015 | 104.771 | 179. | 273.5 | 407.25 | 505. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 26 | 0.4 | 0.412 | 0.6 | 0.2 | 0.009 | 0.095 | 0.3 | 0.375 | 0.5 | 0.53 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 26 | 12. | 12.642 | 18. | 8.1 | 5.81 | 2.41 | 9.88 | 11. | 14. | 16.6 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 26 | 135. | 132.308 | 220. | 60. | 1482.462 | 38.503 | 70. | 107.5 | 152.5 | 183. |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 26 | 713.5 | 698.308 | 990. | 345. | 32661.662 | 180.725 | 422. | 598.25 | 837.25 | 972.3 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 26 | 3245.01 | 4318.858 | 20580.1 | 2010.01 | 13904487.587 | 3728.872 | 2161.01 | 2555.01 | 4052.508 | 8759. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 26 | 0.97 | 0.95 | 1.35 | 0.47 | 0.06 | 0.246 | 0.571 | 0.818 | 1.14 | 1.319 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 26 | 1.5 | 1.719 | 4.2 | 0.6 | 0.978 | 0.989 | 0.67 | 0.9 | 2.625 | 3.03 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 26 | 0. | 4.615 | 20. | 0. | 33.846 | 5.818 | 0. | 0. | 10. | 10. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1964 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|---------|----------|---------|--------------------|-------------|-----------|---------|---------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 5 | 14.4 | 13.88 | 19.4 | 7.8 | 29.427 | 5.425 | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 30 | 2077.5 | 2815.133 | 7845. | 950. | 3566230.533 | 1888.447 | 1263.8 | 1387.5 | 3788.5 | 5892.1 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 25 | 5. | 4.8 | 15. | 1. | 7.667 | 2.769 | 1.6 | 3. | 6. | 7.4 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 25 | 1020. | 935.28 | 1230. | 467. | 45497.71 | 213.302 | 536.8 | 799. | 1075. | 1174. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 25 | 7.6 | 7.672 | 8.2 | 7. | 0.087 | 0.295 | 7.3 | 7.5 | 7.9 | 8.1 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 25 | 7.6 | 7.574 | 8.2 | 7. | 0.097 | 0.311 | 7.3 | 7.5 | 7.9 | 8.1 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 25 | 0.025 | 0.027 | 0.1 | 0.006 | 0. | 0.02 | 0.008 | 0.013 | 0.032 | 0.05 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 25 | 213. | 199.76 | 265. | 127. | 1308.19 | 36.169 | 134.4 | 177.5 | 221. | 231.8 |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 25 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 25 | 318. | 308.36 | 411. | 159. | 4925.907 | 70.185 | 184.6 | 269.5 | 356. | 388.6 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 25 | 149. | 144.48 | 214. | 55. | 1781.843 | 42.212 | 74.8 | 117. | 176. | 198. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 25 | 83. | 79.32 | 104. | 44. | 276.56 | 16.63 | 52. | 68.5 | 93. | 97.8 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 25 | 29. | 26.96 | 52. | 12. | 72.957 | 8.541 | 13. | 22. | 31. | 35.2 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 25 | 97. | 89.16 | 132. | 34. | 651.64 | 25.527 | 40.6 | 75. | 107. | 112.2 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 25 | 2.3 | 2.176 | 2.9 | 1.2 | 0.189 | 0.434 | 1.3 | 2. | 2.4 | 2.54 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 25 | 3.9 | 3.74 | 5. | 2.1 | 0.445 | 0.667 | 2.72 | 3.25 | 4.15 | 4.44 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 25 | 14. | 13.84 | 20. | 5. | 22.14 | 4.705 | 6. | 10. | 18.5 | 20. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 25 | 333. | 301.24 | 447. | 118. | 7128.607 | 84.431 | 147.2 | 249.5 | 357. | 390.6 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 25 | 0.4 | 0.388 | 0.5 | 0.2 | 0.009 | 0.093 | 0.2 | 0.35 | 0.45 | 0.5 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 25 | 11. | 11.276 | 17. | 9.6 | 2.529 | 1.59 | 9.66 | 10. | 12. | 13.4 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 25 | 120. | 128. | 260. | 50. | 2316.667 | 48.132 | 72. | 100. | 150. | 208. |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 25 | 715. | 660.16 | 893. | 301. | 26293.723 | 162.153 | 383.4 | 553. | 764. | 854.6 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 25 | 3270.01 | 3935.607 | 8070. | 2230.01 | 2518604.121 | 1587.011 | 2498.01 | 2765.01 | 4960. | 6628. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 25 | 0.97 | 0.898 | 1.21 | 0.41 | 0.048 | 0.22 | 0.52 | 0.755 | 1.035 | 1.162 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 5 | 31. | 38. | 60. | 24. | 203.5 | 14.265 | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 5 | 46. | 54.2 | 79. | 38. | 308.2 | 17.556 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 25 | 1. | 1.084 | 2.2 | 0.3 | 0.222 | 0.471 | 0.46 | 0.75 | 1.35 | 1.8 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 25 | 0. | 7.2 | 50. | 0. | 212.667 | 14.583 | 0. | 0. | 10. | 38. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 5 | 3130. | 7880. | 27500. | 2000. | 121301450. | 11013.694 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 5 | 25900. | 95140. | 363000. | 16200.22595088000. | 150316.626 | ** | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1965 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|--------|--------|
| 00060p FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 30 | 2703.5 | 3477.333 | 10400. | 1562. | 6360601.885 | 2522.023 | 1701.1 | 2015.5 | 3094. | 8879.9 |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 26 | 5. | 5.385 | 11. | 3. | 4.006 | 2.002 | 3. | 4. | 6.25 | 8.6 |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 30 | 841. | 830.033 | 1060. | 473. | 28586.102 | 169.074 | 554.7 | 715.5 | 973. | 1026.4 |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 30 | 7.6 | 7.56 | 8.1 | 6.8 | 0.108 | 0.329 | 7.01 | 7.375 | 7.8 | 8. |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 30 | 7.6 | 7.431 | 8.1 | 6.8 | 0.125 | 0.354 | 7.01 | 7.375 | 7.8 | 8. |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 30 | 0.025 | 0.037 | 0.158 | 0.008 | 0.001 | 0.034 | 0.01 | 0.016 | 0.042 | 0.098 |
| 00410p ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 8 | 155.5 | 156.875 | 167. | 151. | 40.411 | 6.357 | ** | ** | ** | ** |
| 00440p BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 30 | 194. | 188.4 | 227. | 132. | 675.972 | 25.999 | 145. | 171.75 | 208.5 | 214. |
| 00445p CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 30 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 30 | 272.5 | 272.3 | 362. | 168. | 2838.493 | 53.278 | 183.1 | 240.25 | 318. | 327.7 |
| 00902p HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 30 | 117.5 | 117.7 | 195. | 57. | 1113.528 | 33.37 | 63.2 | 89.5 | 143.25 | 152.9 |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 30 | 70.5 | 70.1 | 97. | 44. | 190.645 | 13.807 | 47.1 | 63.75 | 81. | 84. |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 30 | 24. | 23.733 | 31. | 14. | 22.34 | 4.727 | 16.1 | 20. | 28.25 | 29. |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 30 | 76.5 | 75.3 | 100. | 32. | 419.045 | 20.471 | 44. | 58.75 | 94.25 | 99.8 |
| 00931p SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 30 | 2.05 | 1.957 | 2.4 | 1.1 | 0.141 | 0.376 | 1.4 | 1.6 | 2.3 | 2.4 |
| 00932p SODIUM, PERCENT | 12/01/49-02/16/83 | 8 | 37. | 36.375 | 38. | 33. | 2.268 | 1.506 | ** | ** | ** | ** |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 30 | 3.25 | 3.47 | 5.5 | 1.8 | 0.721 | 0.849 | 2.7 | 2.9 | 4. | 4.69 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 30 | 12. | 11.4 | 17. | 5. | 11.352 | 3.369 | 7. | 8.75 | 14. | 15.9 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 30 | 260.5 | 256.6 | 363. | 121. | 4525.628 | 67.273 | 149.2 | 205.5 | 314.25 | 335.4 |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 30 | 0.4 | 0.427 | 0.9 | 0.2 | 0.039 | 0.198 | 0.3 | 0.3 | 0.4 | 0.9 |
| 00955p SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 30 | 11. | 10.733 | 13. | 8.2 | 0.944 | 0.972 | 9.6 | 10. | 11. | 12. |
| 01020p BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 30 | 100. | 92.333 | 120. | 40. | 673.678 | 25.955 | 50. | 75. | 110. | 120. |
| 70300p RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 30 | 577. | 568.467 | 764. | 304. | 16406.189 | 128.087 | 362. | 476.75 | 676. | 715.8 |
| 70302p SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 30 | 3975.01 | 4680.345 | 10890.1 | 3030.01 | 4187759.236 | 2046.402 | 3104.01 | 3287.51 | 4987.5 | 8710. |
| 70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 30 | 0.785 | 0.773 | 1.04 | 0.41 | 0.03 | 0.174 | 0.493 | 0.65 | 0.92 | 0.977 |
| 71851p NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 30 | 0.9 | 0.85 | 1.7 | 0.2 | 0.186 | 0.431 | 0.2 | 0.5 | 1.125 | 1.4 |
| 71885 IRON (UG/L AS FE) | 12/18/60-05/04/67 | 22 | 0. | 4.091 | 10. | 0. | 25.325 | 5.032 | 0. | 0. | 10. | 10. |

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Annual Analysis for 1966 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|-------|-------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 1 | 12.8 | 12.8 | 12.8 | 12.8 | 0. | 0. | ** | ** | ** | ** |
| 00060p FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 31 | 1070. | 1221.323 | 2340. | 582. | 207028.626 | 455.004 | 669.4 | 884. | 1550. | 1892.8 |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 7 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 31 | 1130. | 1099.613 | 1380. | 700. | 37552.445 | 193.785 | 832.4 | 905. | 1260. | 1338. |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 31 | 7.7 | 7.703 | 8.1 | 7.1 | 0.068 | 0.26 | 7.32 | 7.6 | 7.9 | 8.08 |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 31 | 7.7 | 7.624 | 8.1 | 7.1 | 0.074 | 0.272 | 7.32 | 7.6 | 7.9 | 8.08 |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 31 | 0.02 | 0.024 | 0.079 | 0.008 | 0. | 0.016 | 0.008 | 0.013 | 0.025 | 0.048 |
| 00410p ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 31 | 181. | 177.355 | 230. | 122. | 676.37 | 26.007 | 133.2 | 162. | 198. | 211. |
| 00440p BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 31 | 221. | 216.258 | 280. | 149. | 999.731 | 31.619 | 162.6 | 198. | 241. | 257.6 |
| 00445p CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 31 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 31 | 370. | 358.968 | 448. | 242. | 3270.166 | 57.185 | 276.6 | 306. | 405. | 429. |
| 00902p HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 31 | 191. | 181.613 | 240. | 111. | 1344.578 | 36.668 | 129.8 | 147. | 210. | 224.6 |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 31 | 91. | 91.484 | 122. | 55. | 337.591 | 18.374 | 69.2 | 75. | 108. | 116.8 |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 31 | 31. | 31.839 | 46. | 19. | 41.806 | 6.466 | 24. | 27. | 35. | 41.8 |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 31 | 118. | 113.194 | 162. | 55. | 940.628 | 30.67 | 74. | 87. | 136. | 156.8 |
| 00931p SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 31 | 2.6 | 2.568 | 3.5 | 1.5 | 0.302 | 0.549 | 1.9 | 2.1 | 2.8 | 3.4 |
| 00932p SODIUM, PERCENT | 12/01/49-02/16/83 | 31 | 39. | 39.806 | 48. | 33. | 14.361 | 3.79 | 35. | 37. | 43. | 45. |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 31 | 4. | 3.981 | 7. | 0.8 | 2.482 | 1.576 | 1.74 | 3.1 | 4.6 | 6.82 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 31 | 19. | 18.677 | 28. | 9. | 24.359 | 4.935 | 10.2 | 16. | 21. | 26.6 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 31 | 399. | 387.129 | 528. | 207. | 8885.249 | 94.262 | 251.6 | 290. | 457. | 508. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 31 | 0.5 | 0.545 | 0.8 | 0.3 | 0.021 | 0.143 | 0.4 | 0.4 | 0.7 | 0.7 |
| 00955p SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 31 | 9.9 | 10.148 | 13. | 7.6 | 2.643 | 1.626 | 7.9 | 9.1 | 11. | 13. |
| 01020p BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 31 | 130. | 130.645 | 230. | 10. | 2279.57 | 47.745 | 100. | 100. | 160. | 196. |
| 70300p RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 31 | 796. | 779.032 | 1000. | 458. | 23563.766 | 153.505 | 568.8 | 628. | 914. | 972. |

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Annual Analysis for 1966 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|---------|---------|---------|---------|
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 31 | 2460.01 | 2410.977 | 3560.01 | 1460.01 | 257335.686 | 507.283 | 1720.01 | 2040.01 | 2810.01 | 3024.01 |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 31 | 1.08 | 1.059 | 1.36 | 0.62 | 0.043 | 0.208 | 0.778 | 0.85 | 1.24 | 1.318 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 31 | 1. | 1.174 | 2.9 | 0.4 | 0.377 | 0.614 | 0.52 | 0.7 | 1.3 | 2.34 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |

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Annual Analysis for 1967 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|--------------|-----------|---------|---------|---------|----------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 3 | 8.3 | 6.967 | 12. | 0.6 | 33.823 | 5.816 | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 23 | 2010. | 3103.609 | 18060. | 938. | 13484103.613 | 3672.071 | 1150. | 1557. | 2280. | 7425.6 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 23 | 921. | 926.174 | 1130. | 469. | 30733.514 | 175.31 | 619.4 | 844. | 1060. | 1126. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 23 | 7.9 | 7.93 | 8.5 | 7.5 | 0.063 | 0.251 | 7.6 | 7.8 | 8.1 | 8.26 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 23 | 7.9 | 7.864 | 8.5 | 7.5 | 0.068 | 0.26 | 7.6 | 7.8 | 8.1 | 8.26 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 23 | 0.013 | 0.014 | 0.032 | 0.003 | 0. | 0.008 | 0.006 | 0.008 | 0.016 | 0.025 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 23 | 166. | 163.13 | 212. | 102. | 725.755 | 26.94 | 113.2 | 154. | 180. | 193.6 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 23 | 202. | 198.87 | 258. | 124. | 1083.482 | 32.916 | 137.6 | 188. | 220. | 236. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 23 | 0. | 0.435 | 8. | 0. | 2.893 | 1.701 | 0. | 0. | 0. | 1.2 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 23 | 310. | 304. | 389. | 170. | 3221.091 | 56.755 | 191.2 | 278. | 340. | 368.8 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 23 | 144. | 140.13 | 184. | 68. | 1016.119 | 31.877 | 77.4 | 126. | 161. | 180. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 23 | 94. | 88.13 | 107. | 53. | 206.119 | 14.357 | 62.2 | 79. | 98. | 102.6 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 23 | 21. | 20.365 | 42. | 5.6 | 70.824 | 8.416 | 8.68 | 14. | 26. | 31. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 23 | 86. | 90.957 | 126. | 29. | 594.771 | 24.388 | 56.2 | 78. | 111. | 122.6 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 23 | 2.2 | 2.257 | 3. | 1. | 0.203 | 0.45 | 1.68 | 2.1 | 2.6 | 2.92 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 23 | 38. | 38.478 | 46. | 27. | 14.352 | 3.788 | 34.8 | 37. | 41. | 43.2 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 23 | 3.8 | 3.952 | 6. | 2. | 0.681 | 0.825 | 3.14 | 3.4 | 4.6 | 5.02 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 23 | 13. | 13.087 | 20. | 4. | 13.901 | 3.728 | 7.8 | 12. | 15. | 17.6 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 23 | 305. | 306.391 | 400. | 121. | 5262.885 | 72.546 | 179.4 | 270. | 370. | 382.8 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 23 | 0.5 | 0.483 | 0.8 | 0.2 | 0.017 | 0.13 | 0.3 | 0.4 | 0.6 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 23 | 10. | 10.087 | 14. | 8. | 1.625 | 1.275 | 8.58 | 9.6 | 10. | 12. |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 23 | 100. | 101.739 | 170. | 50. | 660.474 | 25.7 | 70. | 90. | 110. | 130. |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 23 | 640. | 639.217 | 806. | 288. | 18587.542 | 136.336 | 405.2 | 574. | 754. | 796.8 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 5 | 623. | 604.4 | 631. | 562. | 1001.8 | 31.651 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 23 | 3350.01 | 4653.93 | 21750.1 | 2030.01 | 18571021.458 | 4309.411 | 2438.01 | 2990.01 | 4090.01 | 10350.06 |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 23 | 0.87 | 0.87 | 1.1 | 0.39 | 0.035 | 0.187 | 0.55 | 0.78 | 1.03 | 1.086 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 23 | 1.1 | 1.204 | 3.1 | 0.1 | 0.659 | 0.812 | 0.24 | 0.5 | 1.5 | 2.68 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 2 | 70. | 70. | 70. | 70. | 0. | 0. | ** | ** | ** | ** |

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Annual Analysis for 1968 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 27 | 2290. | 2602.148 | 7210. | 938. | 2001043.054 | 1414.582 | 1430. | 1890. | 2690. | 4954. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 27 | 912. | 890.37 | 1120. | 450. | 21116.627 | 145.316 | 629.2 | 862. | 948. | 1056. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 27 | 7.8 | 7.896 | 8.2 | 7.6 | 0.031 | 0.176 | 7.7 | 7.8 | 8. | 8.2 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 27 | 7.8 | 7.864 | 8.2 | 7.6 | 0.032 | 0.179 | 7.7 | 7.8 | 8. | 8.2 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 27 | 0.016 | 0.014 | 0.025 | 0.006 | 0. | 0.005 | 0.006 | 0.01 | 0.016 | 0.02 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 27 | 166. | 161.407 | 197. | 100. | 465.635 | 21.579 | 125. | 151. | 174. | 189.8 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 27 | 202. | 196.889 | 240. | 122. | 684.487 | 26.163 | 153. | 184. | 212. | 231. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 27 | 298. | 291. | 382. | 149. | 2474.154 | 49.741 | 206.4 | 268. | 311. | 358.8 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 27 | 131. | 129.481 | 194. | 49. | 873.259 | 29.551 | 80.4 | 120. | 140. | 166.6 |

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Annual Analysis for 1968 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|-----|---------|---------|---------|---------|-------------|-----------|----------|---------|-------|-------|
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 27 | 79. | 79.333 | 117. | 43. | 234.154 | 15.302 | 57.4 | 73. | 86. | 102.8 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 27 | 24. | 22.711 | 31. | 3.2 | 40.376 | 6.354 | 12.4 | 21. | 27. | 29.2 |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 27 | 88. | 85.852 | 118. | 32. | 337.593 | 18.374 | 57. | 83. | 93. | 113. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 27 | 2.2 | 2.178 | 2.8 | 1.1 | 0.109 | 0.33 | 1.74 | 2.1 | 2.3 | 2.6 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 27 | 39. | 38.481 | 44. | 32. | 4.336 | 2.082 | 36. | 38. | 40. | 40. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 27 | 3.6 | 3.389 | 4.6 | 1.2 | 0.796 | 0.892 | 1.6 | 3.3 | 3.8 | 4.4 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 27 | 14. | 13.037 | 18. | 5. | 11.114 | 3.334 | 6.8 | 12. | 15. | 17.2 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 27 | 292. | 288.926 | 404. | 115. | 3742.61 | 61.177 | 185. | 270. | 315. | 361.6 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 27 | 0.4 | 0.437 | 0.6 | 0.3 | 0.005 | 0.074 | 0.38 | 0.4 | 0.5 | 0.52 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 27 | 9.5 | 9.644 | 11. | 8.2 | 0.55 | 0.742 | 8.84 | 9.1 | 10. | 11. |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 27 | 80. | 82.222 | 130. | 30. | 717.949 | 26.795 | 38. | 60. | 100. | 122. |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 27 | 624. | 607.926 | 798. | 296. | 11418.61 | 106.858 | 424. | 576. | 656. | 731.6 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 27 | 611. | 601.148 | 802. | 276. | 12696.593 | 112.679 | 408.8 | 576. | 653. | 738.4 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 27 | 3930.01 | 3925.93 | 7790. | 2020.01 | 1273488.467 | 1128.489 | 2656.008 | 3020.01 | 4490. | 5256. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 27 | 0.85 | 0.827 | 1.09 | 0.4 | 0.022 | 0.147 | 0.572 | 0.78 | 0.89 | 0.998 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 27 | 0.6 | 0.948 | 5.9 | 0.1 | 1.423 | 1.193 | 0.18 | 0.3 | 1.2 | 2.06 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|---------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 7 | 1. | 6.357 | 20. | 0. | 64.56 | 8.035 | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 29 | 1830. | 2007.172 | 4600. | 810. | 709527.862 | 842.335 | 844. | 1615. | 2580. | 2800. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 1 | 18. | 18. | 18. | 18. | 0. | 0. | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 28 | 966. | 956.143 | 1230. | 563. | 25090.646 | 158.4 | 742.1 | 883. | 1027.5 | 1192. |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 4 | 9.7 | 9.975 | 11.7 | 8.8 | 1.609 | 1.269 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 28 | 8.1 | 8.054 | 8.8 | 7.4 | 0.147 | 0.383 | 7.5 | 7.7 | 8.4 | 8.6 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 28 | 8.1 | 7.902 | 8.8 | 7.4 | 0.171 | 0.413 | 7.5 | 7.7 | 8.4 | 8.6 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 28 | 0.008 | 0.013 | 0.04 | 0.002 | 0. | 0.01 | 0.003 | 0.004 | 0.02 | 0.032 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 24 | 170. | 167.042 | 192. | 116. | 368.737 | 19.203 | 136.5 | 157.5 | 181.75 | 188. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 24 | 205. | 199.958 | 234. | 141. | 618.129 | 24.862 | 162. | 179.5 | 220.25 | 229. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 24 | 0. | 1.833 | 16. | 0. | 18.058 | 4.249 | 0. | 0. | 0. | 10. |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 1 | 0.11 | 0.11 | 0.11 | 0.11 | 0. | 0. | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 23 | 318. | 309.043 | 396. | 199. | 2290.316 | 47.857 | 239. | 274. | 334. | 379.2 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 23 | 144. | 142.826 | 204. | 83. | 960.332 | 30.989 | 99.2 | 119. | 153. | 197. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 24 | 83. | 80.833 | 102. | 52. | 143.797 | 11.992 | 62.5 | 72.75 | 88. | 97. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS Mg) | 03/26/47-03/14/91 | 24 | 27. | 26.917 | 38. | 17. | 25.993 | 5.098 | 20. | 22.25 | 29.75 | 34.5 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 23 | 88. | 91.565 | 139. | 44. | 541.893 | 23.279 | 65.6 | 77. | 105. | 135.4 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 23 | 2.2 | 2.243 | 3.1 | 1.4 | 0.161 | 0.401 | 1.84 | 2. | 2.6 | 2.96 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 23 | 38. | 38.13 | 44. | 32. | 7.482 | 2.735 | 35. | 37. | 39. | 42.6 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 23 | 3.7 | 3.783 | 4.9 | 2.8 | 0.348 | 0.59 | 2.92 | 3.4 | 4.2 | 4.7 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 24 | 14. | 13.792 | 18. | 6. | 10.955 | 3.31 | 9. | 11.25 | 17. | 18. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 24 | 312. | 313.125 | 463. | 166. | 4944.288 | 70.316 | 225.5 | 262. | 343.5 | 435. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 23 | 0.4 | 0.396 | 0.5 | 0.2 | 0.005 | 0.071 | 0.3 | 0.4 | 0.4 | 0.5 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 23 | 9. | 9.178 | 11. | 7.7 | 0.874 | 0.935 | 7.82 | 8.6 | 9.6 | 11. |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 23 | 100. | 92.609 | 140. | 0. | 1229.249 | 35.061 | 26. | 80. | 120. | 120. |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 24 | 658. | 650.417 | 894. | 376. | 15335.645 | 123.837 | 486. | 563. | 708.5 | 854. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 23 | 625. | 638.957 | 885. | 365. | 15710.953 | 125.343 | 476.2 | 547. | 703. | 844.4 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 24 | 3435. | 3523.751 | 6880. | 1920.01 | 1243307.377 | 1115.037 | 2005.01 | 2840. | 4290. | 4815. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 24 | 0.895 | 0.885 | 1.22 | 0.51 | 0.029 | 0.17 | 0.66 | 0.763 | 0.96 | 1.165 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 24 | 0.6 | 0.654 | 1.5 | 0.1 | 0.15 | 0.388 | 0.2 | 0.325 | 0.875 | 1.3 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 1 | 58. | 58. | 58. | 58. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1970 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 17 | 7. | 8. | 23. | 0. | 58.344 | 7.638 | 0. | 0. | 15. | 19.8 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 34 | 1825. | 2053.441 | 4790. | 577. | 929448.496 | 964.079 | 903.5 | 1422.5 | 2462.5 | 3665. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 21 | 953. | 902.286 | 1290. | 450. | 61990.614 | 248.979 | 515.6 | 689.5 | 1040. | 1258. |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 2 | 8.2 | 8.2 | 8.6 | 7.8 | 0.32 | 0.566 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 21 | 8. | 7.967 | 8.2 | 7.6 | 0.031 | 0.177 | 7.72 | 7.8 | 8.1 | 8.2 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 21 | 8. | 7.932 | 8.2 | 7.6 | 0.033 | 0.181 | 7.72 | 7.8 | 8.1 | 8.2 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 21 | 0.01 | 0.012 | 0.025 | 0.006 | 0. | 0.005 | 0.006 | 0.008 | 0.016 | 0.019 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 19 | 176. | 165.474 | 210. | 83. | 1153.263 | 33.96 | 107. | 150. | 185. | 202. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 19 | 214. | 201.737 | 256. | 101. | 1705.538 | 41.298 | 131. | 183. | 225. | 246. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 19 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 2 | 0.11 | 0.11 | 0.2 | 0.02 | 0.016 | 0.127 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 19 | 318. | 310.895 | 428. | 168. | 5803.877 | 76.183 | 186. | 272. | 354. | 410. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 19 | 142. | 145.421 | 218. | 71. | 1952.813 | 44.191 | 79. | 122. | 170. | 215. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 19 | 82. | 80.368 | 112. | 46. | 359.246 | 18.954 | 50. | 73. | 94. | 108. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 19 | 28. | 26.842 | 37. | 13. | 52.363 | 7.236 | 15. | 22. | 32. | 36. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 18 | 94.5 | 92.167 | 142. | 37. | 811.441 | 28.486 | 39.7 | 82.5 | 106. | 136.6 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 18 | 2.25 | 2.211 | 3.1 | 1.2 | 0.243 | 0.493 | 1.2 | 2.125 | 2.425 | 2.92 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 18 | 38. | 37.611 | 43. | 29. | 11.546 | 3.398 | 29.9 | 36.75 | 39.25 | 41.2 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 17 | 4.2 | 4.024 | 5.5 | 2.1 | 0.839 | 0.916 | 2.74 | 3.3 | 4.6 | 5.5 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 19 | 15. | 13.842 | 20. | 5. | 25.251 | 5.025 | 5. | 9. | 18. | 19. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 19 | 309. | 306.211 | 488. | 144. | 9684.287 | 98.409 | 152. | 253. | 352. | 448. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 17 | 0.6 | 0.847 | 2.5 | 0.3 | 0.293 | 0.541 | 0.38 | 0.45 | 1.15 | 1.54 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 17 | 9.2 | 9.6 | 13. | 7. | 2.093 | 1.447 | 7.96 | 8.6 | 11. | 11.4 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 18 | 110. | 110.556 | 170. | 60. | 1040.85 | 32.262 | 60. | 87.5 | 132.5 | 161. |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 19 | 698. | 810.947 | 3380. | 336. | 413461.497 | 643.01 | 396. | 614. | 814. | 942. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 17 | 687. | 649.765 | 924. | 327. | 29550.691 | 171.903 | 363. | 567. | 760.5 | 904. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 19 | 3800. | 4778.422 | 29800. | 1430. | 37464357.726 | 6120.813 | 1950. | 2900. | 4230. | 4450. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 19 | 0.95 | 1.104 | 4.6 | 0.46 | 0.765 | 0.875 | 0.54 | 0.84 | 1.11 | 1.28 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 4 | 59.5 | 59. | 82. | 35. | 622. | 24.94 | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 4 | 72.5 | 73.25 | 97. | 51. | 581.583 | 24.116 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 19 | 0.7 | 0.963 | 2.5 | 0.1 | 0.45 | 0.671 | 0.2 | 0.4 | 1.6 | 1.8 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 12 | 186. | 277.25 | 862. | 12. | 86707.841 | 294.462 | 21. | 66.5 | 470.5 | 843.4 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 12 | 789. | 1301.917 | 5730. | 49. | 2838017.72 | 1684.642 | 93.7 | 288.5 | 1111.5 | 5118. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 17 | 14. | 13.5 | 25.5 | 0. | 63.5 | 7.969 | 1.6 | 6.75 | 20.5 | 22.7 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 17 | 2430. | 3732.353 | 9920. | 1650. | 7964481.618 | 2822.141 | 1698. | 2095. | 4030. | 9880. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 11 | 854. | 778.455 | 910. | 446. | 27217.073 | 164.976 | 462.6 | 647. | 902. | 910. |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 11 | 8. | 7.982 | 8.2 | 7.6 | 0.042 | 0.204 | 7.62 | 7.9 | 8.2 | 8.2 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 11 | 8. | 7.935 | 8.2 | 7.6 | 0.044 | 0.21 | 7.62 | 7.9 | 8.2 | 8.2 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 11 | 0.01 | 0.012 | 0.025 | 0.006 | 0. | 0.006 | 0.006 | 0.006 | 0.013 | 0.024 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 10 | 152. | 147.9 | 170. | 95. | 471.878 | 21.723 | 99. | 138. | 164.75 | 169.7 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 10 | 185. | 180.4 | 207. | 116. | 696.267 | 26.387 | 120.9 | 168.75 | 201. | 206.7 |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 10 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 1 | 0.07 | 0.07 | 0.07 | 0.07 | 0. | 0. | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 10 | 290. | 274. | 350. | 150. | 3271.111 | 57.194 | 157. | 235. | 305. | 347. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 10 | 135. | 126.5 | 183. | 55. | 1354.722 | 36.807 | 58. | 97. | 147.75 | 179.7 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 10 | 74.5 | 71.2 | 82. | 43. | 149.956 | 12.246 | 44.7 | 63.75 | 80.25 | 81.9 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 10 | 24.5 | 23.8 | 37. | 11. | 47.511 | 6.893 | 11.7 | 19.5 | 26.75 | 36.2 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 10 | 79. | 74.7 | 100. | 35. | 338.233 | 18.391 | 37.4 | 64.25 | 87.25 | 98.8 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 10 | 2. | 1.93 | 2.5 | 1.2 | 0.118 | 0.343 | 1.25 | 1.775 | 2.125 | 2.47 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 10 | 37. | 36.6 | 42. | 33. | 6.044 | 2.459 | 33.1 | 34.75 | 37.25 | 41.6 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|-----------|---------|----------|--------------|-----------|-------|-------|--------|
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 10 | 3.3 | 3.47 | 4.4 | 2.4 | 0.422 | 0.65 | 2.43 | 3.15 | 3.95 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 10 | 14.5 | 13. | 17. | 7. | 13.778 | 3.712 | 7.1 | 9.5 | 16.25 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 10 | 285. | 270. | 330. | 120. | 4422.222 | 66.5 | 129. | 232.5 | 322.5 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 10 | 0.5 | 0.48 | 0.6 | 0.3 | 0.008 | 0.092 | 0.31 | 0.4 | 0.525 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 10 | 9.95 | 9.83 | 12. | 7.3 | 1.567 | 1.252 | 7.43 | 9.425 | 10.25 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 12 | 100. | 94.167 | 150. | 50. | 662.879 | 25.746 | 53. | 80. | 107.5 |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 10 | 607. | 568. | 664. | 308. | 12706.667 | 112.724 | 323.4 | 502.5 | 658. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 10 | 586. | 556.1 | 666. | 292. | 13799.878 | 117.473 | 307.7 | 483.5 | 648. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 10 | 4120. | 4384. | 8250. | 2640. | 2447826.667 | 1564.553 | 2651. | 3575. | 4790. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 10 | 0.83 | 0.773 | 0.9 | 0.42 | 0.023 | 0.153 | 0.441 | 0.683 | 0.893 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 8 | 23. | 31.875 | 74. | 9. | 491.268 | 22.165 | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 8 | 34.5 | 45. | 88. | 16. | 655.429 | 25.601 | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 10 | 1.4 | 1.39 | 3.4 | 0.3 | 0.985 | 0.993 | 0.32 | 0.5 | 1.975 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 12 | 464.5 | 979.083 | 3140. | 116. | 1126370.811 | 1061.306 | 121.4 | 182.5 | 2007.5 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 12 | 3730. | 12696.583 | 83700. | 517. | 547381675.72 | 23396.189 | 604.9 | 971.5 | 15600. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1972 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|--------------|----------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 17 | 11. | 9.647 | 24. | 0. | 62.399 | 7.899 | 0. | 1.25 | 16.75 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 17 | 2220. | 2695.882 | 7150. | 1940. | 1520450.735 | 1233.066 | 1996. | 2110. | 4222. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 1 | 2010. | 2010. | 2010. | 2010. | 0 | 0. | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 14 | 815.5 | 784.071 | 910. | 614. | 7556.995 | 86.931 | 639.5 | 713.75 | 855.75 |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 2 | 10.15 | 10.15 | 11.9 | 8.4 | 6.125 | 2.475 | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 14 | 8. | 8.014 | 8.3 | 7.7 | 0.038 | 0.196 | 7.75 | 7.875 | 8.15 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 14 | 8. | 7.975 | 8.3 | 7.7 | 0.04 | 0.2 | 7.75 | 7.875 | 8.15 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 14 | 0.01 | 0.011 | 0.02 | 0.005 | 0. | 0.005 | 0.005 | 0.007 | 0.013 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 4 | 3.45 | 3.25 | 4.6 | 1.5 | 2.257 | 1.502 | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 149.5 | 147.833 | 179. | 122. | 225.242 | 15.008 | 122.9 | 141. | 155. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 182.5 | 180.417 | 218. | 149. | 328.447 | 18.123 | 150.2 | 172.25 | 189. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 4 | 0.25 | 0.313 | 0.7 | 0.05 | 0.076 | 0.275 | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 275. | 265.833 | 320. | 200. | 1317.424 | 36.296 | 203. | 242.5 | 287.5 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 124.5 | 117.75 | 165. | 78. | 562.023 | 23.707 | 79.8 | 101.5 | 130. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 70. | 69.167 | 82. | 54. | 63.97 | 7.998 | 54.6 | 65.75 | 74.75 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 22. | 22.417 | 33. | 17. | 18.083 | 4.252 | 17. | 20. | 24. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 70.5 | 68.083 | 78. | 49. | 88.629 | 9.414 | 51.1 | 61.25 | 76. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 1.8 | 1.825 | 2.1 | 1.5 | 0.028 | 0.166 | 1.56 | 1.7 | 1.975 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 35. | 35.333 | 38. | 34. | 2.061 | 1.435 | 34. | 34. | 36.75 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 3.3 | 3.275 | 4.4 | 2.6 | 0.215 | 0.463 | 2.66 | 3. | 3.45 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 12. | 11.917 | 15. | 8. | 4.265 | 2.065 | 8.3 | 10.5 | 13.75 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 260. | 246.667 | 280. | 180. | 1060.606 | 32.567 | 186. | 230. | 270. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.45 | 0.442 | 0.5 | 0.3 | 0.004 | 0.067 | 0.33 | 0.4 | 0.5 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 12 | 9.4 | 9.158 | 13. | 5.7 | 3.648 | 1.91 | 6.12 | 7.575 | 9.95 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 12 | 90. | 88.333 | 120. | 70. | 196.97 | 14.035 | 70. | 80. | 97.5 |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 12 | 546. | 523.333 | 584. | 402. | 3262.788 | 57.121 | 412.8 | 491.5 | 563.5 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 544.5 | 520.333 | 589. | 396. | 4031.333 | 63.493 | 404.1 | 481.5 | 576. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 3565. | 4007.5 | 8460. | 2860. | 2338584.091 | 1529.243 | 2920. | 3107.5 | 4430. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.745 | 0.712 | 0.79 | 0.55 | 0.006 | 0.076 | 0.565 | 0.67 | 0.768 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 5 | 30. | 29.4 | 34. | 22. | 22.8 | 4.775 | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 5 | 42. | 42.4 | 57. | 30. | 95.3 | 9.762 | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 1.2 | 1.225 | 3.1 | 0.2 | 0.542 | 0.736 | 0.26 | 0.725 | 1.4 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 11 | 244. | 423.909 | 1590. | 91. | 193162.091 | 439.502 | 98.8 | 173. | 573. |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 11 | 1480. | 4833.273 | 30700. | 518. | 77328433.018 | 8793.659 | 580. | 1120. | 5400. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1973 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|-----------|---------|---------|---------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 18 | 7.25 | 9.833 | 25.5 | 0. | 62.706 | 7.919 | 0.45 | 1.75 | 15.75 | 21. |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 15 | 2420. | 2499.333 | 5310. | 1310. | 928206.667 | 963.435 | 1436. | 1930. | 2880. | 4026. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 7 | 2880. | 2738.571 | 3430. | 1520. | 378047.619 | 614.856 | ** | ** | ** | ** |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 2 | 17.5 | 17.5 | 20. | 15. | 12.5 | 3.536 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 16 | 930. | 953.375 | 1340. | 600. | 25725.183 | 160.391 | 749.1 | 884.25 | 1060.5 | 1179. |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 4 | 9.7 | 9.375 | 10.5 | 7.6 | 1.603 | 1.266 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 16 | 8. | 7.994 | 8.5 | 7.5 | 0.109 | 0.33 | 7.5 | 7.725 | 8.275 | 8.5 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 16 | 7.989 | 7.882 | 8.5 | 7.5 | 0.122 | 0.349 | 7.5 | 7.725 | 8.275 | 8.5 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 16 | 0.01 | 0.013 | 0.032 | 0.003 | 0. | 0.01 | 0.003 | 0.005 | 0.019 | 0.032 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 14 | 3.15 | 4.121 | 10. | 0.9 | 8.503 | 2.916 | 0.95 | 1.85 | 7.125 | 8.9 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 14 | 160. | 159.143 | 185. | 115. | 295.209 | 17.182 | 129. | 155. | 167. | 183.5 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 14 | 195. | 193.929 | 226. | 140. | 445.148 | 21.099 | 157. | 188.75 | 203.75 | 224. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 14 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 13 | 0.25 | 0.361 | 1.1 | 0.09 | 0.091 | 0.301 | 0.098 | 0.125 | 0.585 | 0.912 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 3 | 0.08 | 0.107 | 0.23 | 0.01 | 0.013 | 0.112 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 14 | 305. | 313.571 | 500. | 200. | 4224.725 | 64.998 | 235. | 287.5 | 330. | 430. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 14 | 145. | 154.643 | 340. | 85. | 3601.786 | 60.015 | 97.5 | 127.5 | 150. | 275. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 14 | 81. | 83. | 140. | 56. | 354. | 18.815 | 63.5 | 73.5 | 88.5 | 116. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 14 | 25.5 | 25.571 | 36. | 15. | 24.11 | 4.91 | 18. | 22.75 | 28.25 | 33.5 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 14 | 80. | 83.5 | 120. | 49. | 305.192 | 17.47 | 58. | 77.25 | 90.25 | 115. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 14 | 2. | 2.057 | 2.9 | 1.5 | 0.092 | 0.303 | 1.65 | 1.975 | 2.1 | 2.6 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 14 | 36. | 36.357 | 44. | 32. | 7.786 | 2.79 | 33. | 34. | 37.25 | 41. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 14 | 3.85 | 4.164 | 7.2 | 3. | 1.296 | 1.139 | 3.15 | 3.45 | 4.375 | 6.5 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 14 | 13.5 | 14.5 | 20. | 9. | 12.269 | 3.503 | 10. | 11.75 | 18. | 19.5 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 14 | 290. | 312.857 | 560. | 180. | 7775.824 | 88.181 | 210. | 275. | 332.5 | 480. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 14 | 0.5 | 0.486 | 0.6 | 0.3 | 0.007 | 0.086 | 0.35 | 0.4 | 0.525 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 14 | 11. | 11.086 | 14. | 8.9 | 2.477 | 1.574 | 9.1 | 10. | 12. | 14. |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 12 | 100. | 100.833 | 140. | 60. | 371.97 | 19.287 | 66. | 92.5 | 110. | 131. |
| 70300p | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/26/47-10/10/73 | 12 | 640. | 660.167 | 1010. | 410. | 21934.152 | 148.102 | 447.8 | 582.5 | 747.5 | 941. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 14 | 615.5 | 633.143 | 986. | 398. | 17995.67 | 134.148 | 463.5 | 577. | 673. | 870.5 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 14 | 4370. | 4556.429 | 8650. | 2220. | 2728670.879 | 1651.869 | 2455. | 3312.5 | 5467.5 | 7360. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 14 | 0.845 | 0.884 | 1.37 | 0.56 | 0.035 | 0.187 | 0.645 | 0.795 | 0.945 | 1.215 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 4 | 44.5 | 44.25 | 61. | 27. | 296.917 | 17.231 | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 4 | 67.5 | 65.5 | 88. | 39. | 659. | 25.671 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 13 | 1.1 | 1.592 | 4.8 | 0.4 | 1.744 | 1.321 | 0.44 | 0.55 | 2.6 | 4. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 6 | 1370. | 1568.5 | 3900. | 181. | 2035021.5 | 1426.542 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 6 | 11010. | 13170.167 | 30300. | 641. | 154145828.167 | 12415.548 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 15 | 10.5 | 10.1 | 23. | 0. | 63.686 | 7.98 | 0.3 | 1. | 19.5 | 21.5 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 15 | 2200. | 2538.667 | 7590. | 1430. | 2147355.238 | 1465.386 | 1502. | 1750. | 2700. | 4704. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 11 | 10. | 48.364 | 250. | 1. | 5556.055 | 74.539 | 1. | 2. | 75. | 218. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 905. | 869.083 | 992. | 395. | 26980.992 | 164.259 | 512.9 | 823. | 979.5 | 988.4 |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 12 | 10.05 | 9.742 | 12.8 | 6.8 | 2.686 | 1.639 | 7.28 | 8.525 | 10.55 | 12.5 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 12 | 8.15 | 8.15 | 8.4 | 7.9 | 0.023 | 0.151 | 7.93 | 8.025 | 8.2 | 8.4 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 12 | 8.147 | 8.127 | 8.4 | 7.9 | 0.023 | 0.153 | 7.93 | 8.025 | 8.2 | 8.4 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 12 | 0.007 | 0.007 | 0.013 | 0.004 | 0. | 0.003 | 0.004 | 0.006 | 0.009 | 0.012 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 12 | 2.2 | 2.392 | 4. | 1.4 | 0.703 | 0.838 | 1.4 | 1.825 | 2.85 | 3.94 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 172. | 167. | 194. | 90. | 751.455 | 27.413 | 108.9 | 158.25 | 186.75 | 192.5 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 208.5 | 202. | 237. | 110. | 1079.636 | 32.858 | 132.8 | 192.75 | 225. | 234.9 |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 0.75 | 6. | 0. | 3.477 | 1.865 | 0. | 0. | 0. | 5.1 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 12 | 0.23 | 0.299 | 0.68 | 0.16 | 0.026 | 0.16 | 0.16 | 0.18 | 0.41 | 0.617 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 12 | 0.01 | 0.014 | 0.05 | 0.005 | 0. | 0.014 | 0.005 | 0.005 | 0.018 | 0.044 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|-------|-------|
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 300. | 303.333 | 390. | 130. | 4496.97 | 67.059 | 169. | 280. | 350. | 381. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 130. | 136.667 | 200. | 40. | 1642.424 | 40.527 | 61. | 120. | 167.5 | 191. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 75. | 68.917 | 88. | 3. | 587.72 | 24.243 | 15.6 | 66.25 | 86.75 | 87.7 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 27.5 | 27.508 | 43. | 4.1 | 124.574 | 11.161 | 7.67 | 20. | 36. | 42.7 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 79.5 | 75.75 | 89. | 31. | 233.295 | 15.274 | 42.7 | 71.75 | 84.25 | 88.4 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 1.9 | 1.967 | 2.8 | 1.2 | 0.128 | 0.358 | 1.38 | 1.9 | 2.075 | 2.62 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 36. | 36.583 | 51. | 32. | 24.083 | 4.907 | 32.3 | 34. | 37. | 47.1 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 3.4 | 3.4 | 4.2 | 2.1 | 0.358 | 0.598 | 2.37 | 3. | 3.925 | 4.2 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 14.5 | 14.917 | 27. | 4. | 40.447 | 6.36 | 5.5 | 9.5 | 19.75 | 25.5 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 290. | 271.667 | 330. | 100. | 4215.152 | 64.924 | 136. | 245. | 317.5 | 330. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.5 | 0.483 | 0.7 | 0.3 | 0.014 | 0.119 | 0.33 | 0.4 | 0.5 | 0.7 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 12 | 9.1 | 9.4 | 11. | 7.6 | 0.978 | 0.989 | 7.9 | 8.825 | 10. | 11. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 612. | 580.083 | 690. | 250. | 14137.174 | 118.9 | 329.5 | 537.75 | 660.5 | 681.9 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 3305. | 3539.167 | 5120. | 2560. | 646226.515 | 803.882 | 2623. | 2880. | 4110. | 5000. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.835 | 0.789 | 0.94 | 0.34 | 0.026 | 0.161 | 0.448 | 0.732 | 0.898 | 0.928 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 31.5 | 31.5 | 45. | 18. | 364.5 | 19.092 | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 48.5 | 48.5 | 64. | 33. | 480.5 | 21.92 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 1. | 1.317 | 3. | 0.7 | 0.505 | 0.711 | 0.7 | 0.8 | 1.8 | 2.73 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 5 | 274. | 703.2 | 2370. | 66. | 911816.7 | 954.891 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 5 | 2060. | 11229.2 | 48600. | 276. | 438568903.2 | 20942.037 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 16 | 10. | 9.094 | 21.5 | 0. | 56.707 | 7.53 | 0. | 0.25 | 14.75 | 20.1 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 2 | 25. | 25. | 31.5 | 18.5 | 84.5 | 9.192 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 16 | 1945. | 2695.625 | 8800. | 1140. | 3665852.917 | 1914.642 | 1350. | 1560. | 2987.5 | 6007. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 13 | 10. | 47.5 | 300. | 1. | 6927.583 | 83.232 | 1.4 | 5. | 65. | 220. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 910. | 865. | 1100. | 540. | 28681.818 | 169.357 | 576. | 692.5 | 975. | 1085. |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 12 | 9.8 | 9.908 | 12. | 7.8 | 2.019 | 1.421 | 7.95 | 8.725 | 11.35 | 11.94 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 9 | 8.2 | 8.133 | 8.3 | 7.7 | 0.043 | 0.206 | 7.7 | 8. | 8.3 | 8.3 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 9 | 8.2 | 8.084 | 8.3 | 7.7 | 0.045 | 0.213 | 7.7 | 8. | 8.3 | 8.3 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 9 | 0.006 | 0.008 | 0.02 | 0.005 | 0. | 0.005 | 0.005 | 0.005 | 0.01 | 0.02 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 9 | 1.9 | 2.578 | 6.4 | 1.4 | 2.539 | 1.594 | 1.4 | 1.55 | 3.2 | 6.4 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 172. | 166. | 197. | 90. | 783.091 | 27.984 | 107.4 | 152. | 180. | 194.6 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 210. | 202.5 | 240. | 110. | 1165.909 | 34.145 | 131. | 185. | 220. | 237. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 12 | 0.24 | 0.423 | 2.5 | 0.09 | 0.437 | 0.661 | 0.105 | 0.145 | 0.335 | 1.873 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 12 | 0.03 | 0.04 | 0.09 | 0.01 | 0.001 | 0.025 | 0.013 | 0.02 | 0.065 | 0.084 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 315. | 299.167 | 360. | 140. | 3753.788 | 61.268 | 170. | 270. | 330. | 360. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 140. | 133.5 | 180. | 50. | 1336.091 | 36.553 | 62.6 | 112.5 | 160. | 177. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 78.5 | 76. | 93. | 38. | 220.909 | 14.863 | 45.2 | 69.5 | 85.5 | 92.4 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 28. | 26.417 | 32. | 11. | 34.629 | 5.885 | 14.3 | 23. | 30.75 | 32. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 81. | 78.833 | 110. | 30. | 386.697 | 19.665 | 41.4 | 69. | 87.75 | 107. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 1.9 | 1.958 | 2.7 | 1.1 | 0.144 | 0.38 | 1.28 | 1.825 | 2.175 | 2.58 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 35.5 | 35.75 | 43. | 31. | 9.659 | 3.108 | 31.3 | 34. | 37. | 41.5 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 3.4 | 3.967 | 7. | 2.3 | 2.057 | 1.434 | 2.45 | 3.075 | 4.825 | 6.79 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 16. | 14.5 | 20. | 6. | 18.273 | 4.275 | 6.9 | 11.5 | 17.5 | 20. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 300. | 280.833 | 370. | 100. | 4608.333 | 67.885 | 139. | 255. | 317.5 | 358. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.5 | 0.475 | 0.6 | 0.2 | 0.013 | 0.114 | 0.26 | 0.4 | 0.575 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 12 | 9.35 | 9.175 | 11. | 7.2 | 1.177 | 1.085 | 7.32 | 8.25 | 9.8 | 10.7 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 625. | 591.167 | 741. | 255. | 15690.879 | 125.263 | 325.8 | 538. | 655.25 | 726. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 3170. | 3553.333 | 6060. | 2280. | 1611496.97 | 1269.448 | 2325. | 2450. | 4585. | 5889. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.85 | 0.805 | 1.01 | 0.35 | 0.029 | 0.17 | 0.446 | 0.728 | 0.893 | 0.989 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 3 | 17. | 23. | 38. | 14. | 171. | 13.077 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|--------|-----------|---------|----------|---------------|----------|------|-------|-------|
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 3 | 28. | 37. | 58. | 25. | 333. | 18.248 | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 1.05 | 1.858 | 11. | 0.4 | 8.463 | 2.909 | 0.46 | 0.625 | 1.475 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 6 | 1020.5 | 1046.333 | 1940. | 146. | 702123.467 | 837.928 | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 6 | 7795. | 14680.333 | 44700. | 702. | 303149176.667 | 17411.18 | ** | ** | ** |

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Annual Analysis for 1976 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|-------------|-----------|-------|-------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 17 | 10.5 | 11.559 | 24. | 0. | 63.121 | 7.945 | 0.8 | 4. | 18.75 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 18 | 2125. | 2271.667 | 5730. | 960. | 985261.765 | 992.604 | 1239. | 1790. | 2425. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 12 | 19. | 36.417 | 100. | 1. | 1502.992 | 38.768 | 1. | 2.5 | 77.5 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 895. | 841.667 | 1100. | 520. | 31560.606 | 177.653 | 532. | 692.5 | 947.5 |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 12 | 9.35 | 9.558 | 11.1 | 7.4 | 1.555 | 1.247 | 7.49 | 8.925 | 10.8 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 172. | 165.917 | 189. | 115. | 483.356 | 21.985 | 119.8 | 164. | 179.25 |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 210. | 200.833 | 230. | 140. | 717.424 | 26.785 | 146. | 192.5 | 217.5 |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 0.75 | 6. | 0. | 3.477 | 1.865 | 0. | 0. | 5.1 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 12 | 0.235 | 0.426 | 2.2 | 0. | 0.359 | 0.599 | 0.006 | 0.103 | 0.445 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 12 | 0.07 | 0.075 | 0.16 | 0.01 | 0.002 | 0.049 | 0.016 | 0.033 | 0.12 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 300. | 289.167 | 330. | 190. | 1517.424 | 38.954 | 205. | 282.5 | 317.5 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 130. | 123.75 | 140. | 75. | 359.659 | 18.965 | 85.5 | 112.5 | 140. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 77.5 | 74.667 | 85. | 51. | 87.152 | 9.335 | 54.6 | 72. | 80.5 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 25.5 | 24.917 | 28. | 15. | 13.538 | 3.679 | 16.8 | 25. | 27.75 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 78.5 | 77.25 | 100. | 41. | 219.295 | 14.809 | 46.4 | 75.75 | 85. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 2. | 1.958 | 2.4 | 1.3 | 0.077 | 0.278 | 1.39 | 1.9 | 2.1 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 36. | 36.167 | 40. | 32. | 4.333 | 2.082 | 32.6 | 35. | 37.75 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 3.5 | 3.392 | 4.7 | 2.1 | 0.532 | 0.729 | 2.16 | 3. | 3.7 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 13.5 | 13.417 | 16. | 9. | 6.083 | 2.466 | 9. | 12.25 | 15.75 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 290. | 272.5 | 340. | 150. | 2311.364 | 48.077 | 171. | 262.5 | 290. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.55 | 0.55 | 0.8 | 0.4 | 0.012 | 0.109 | 0.4 | 0.5 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 12 | 9.7 | 10.008 | 14. | 7.7 | 2.412 | 1.553 | 7.94 | 9.4 | 10.75 |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 3 | 46. | 96.667 | 220. | 24. | 11529.333 | 107.375 | ** | ** | ** |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 3 | 1.663 | 1.795 | 2.342 | 1.38 | 0.245 | 0.495 | ** | ** | ** |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 62.392 | | | | | | | |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 602.5 | 578.25 | 708. | 350. | 8295.295 | 91.079 | 385.1 | 568. | 626.75 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 3345. | 3259.167 | 4440. | 1840. | 546462.879 | 739.231 | 1915. | 2910. | 3822.5 |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.82 | 0.787 | 0.96 | 0.48 | 0.015 | 0.122 | 0.528 | 0.77 | 0.855 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 26.5 | 26.5 | 34. | 19. | 112.5 | 10.607 | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 42. | 42. | 54. | 30. | 288. | 16.971 | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 1.05 | 1.892 | 9.8 | 0. | 7.114 | 2.667 | 0.03 | 0.45 | 1.975 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 5 | 242. | 572.4 | 1670. | 146. | 401566.8 | 633.693 | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 5 | 1560. | 6476.8 | 25800. | 694. | 117937361.2 | 10859.897 | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|--------|-------|----------|---------|----------|------------|---------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 20 | 10.5 | 10.45 | 24. | 0. | 60.997 | 7.81 | 0. | 1.75 | 17.75 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 20 | 1100. | 1329.35 | 3170. | 612. | 555054.134 | 745.02 | 620.8 | 752.75 | 1932.5 |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 12 | 65. | 223.5 | 1100. | 1. | 112227.909 | 335.004 | 1.3 | 4.75 | 362.5 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 1100. | 1051.667 | 1400. | 470. | 91342.424 | 302.229 | 536. | 792.5 | 1362.5 |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 12 | 10.4 | 10.033 | 11.8 | 8.2 | 1.321 | 1.149 | 8.32 | 8.85 | 10.825 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 202.5 | 194.833 | 250. | 98. | 1638.152 | 40.474 | 110.3 | 189. | 219. |

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Annual Analysis for 1977 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|-------|--------|--------|
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 245. | 235. | 300. | 120. | 2245.455 | 47.386 | 135. | 230. | 260. | 291. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 1.5 | 18. | 0. | 27. | 5.196 | 0. | 0. | 0. | 12.6 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 12 | 0.495 | 0.593 | 1.7 | 0.02 | 0.268 | 0.517 | 0.056 | 0.218 | 0.7 | 1.64 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 12 | 0.055 | 0.091 | 0.51 | 0.005 | 0.019 | 0.139 | 0.005 | 0.009 | 0.11 | 0.396 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 390. | 366.667 | 500. | 180. | 9260.606 | 96.232 | 201. | 295. | 435. | 497. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 185. | 171.833 | 270. | 82. | 3727.606 | 61.054 | 87.4 | 112.5 | 210. | 264. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 92. | 89.083 | 140. | 49. | 498.083 | 22.318 | 54.4 | 74. | 99.5 | 128. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 36.5 | 34.917 | 57. | 14. | 140.265 | 11.843 | 16.1 | 27. | 43.75 | 54. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 105. | 112.5 | 160. | 29. | 1883.545 | 43.4 | 40.7 | 81.25 | 157.5 | 160. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 2.35 | 2.508 | 3.5 | 0.9 | 0.654 | 0.808 | 1.2 | 1.925 | 3.3 | 3.47 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 38. | 38.5 | 46. | 26. | 38.455 | 6.201 | 27.2 | 36. | 44. | 46. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 4.5 | 4.55 | 5.9 | 2.6 | 1.305 | 1.142 | 2.72 | 3.6 | 5.675 | 5.84 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 20.5 | 21.5 | 38. | 4. | 130.636 | 11.43 | 4.6 | 11.25 | 32.25 | 37.1 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 405. | 365. | 510. | 140. | 14590.909 | 120.793 | 170. | 252.5 | 480. | 504. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.6 | 0.658 | 1. | 0.3 | 0.035 | 0.188 | 0.36 | 0.6 | 0.8 | 0.97 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 12 | 9.9 | 10.075 | 13. | 7.3 | 3.922 | 1.98 | 7.42 | 8.05 | 11.75 | 13. |
| 31625 | FECAL COLIFORM, MF, M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 220. | 235.833 | 580. | 66. | 28142.152 | 167.756 | 69. | 80. | 310. | 556. |
| 31625 | LOG FECAL COLIFORM, MF, M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 2.342 | 2.267 | 2.763 | 1.82 | 0.106 | 0.325 | 1.838 | 1.902 | 2.491 | 2.744 |
| 31625 | GM FECAL COLIFORM, MF, M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 184.83 | | | | | | | | |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 833. | 757.333 | 1050. | 306. | 50520.061 | 224.767 | 367.8 | 571.5 | 927.75 | 1032.6 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 2560. | 2428.333 | 3270. | 1570. | 245906.061 | 495.889 | 1651. | 1975. | 2767.5 | 3162. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 1.135 | 1.031 | 1.43 | 0.42 | 0.093 | 0.305 | 0.504 | 0.78 | 1.26 | 1.406 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 40.5 | 40.5 | 41. | 40. | 0.5 | 0.707 | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 58. | 58. | 65. | 51. | 98. | 9.899 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 2.2 | 2.633 | 7.7 | 0.1 | 5.295 | 2.301 | 0.25 | 0.975 | 3.1 | 7.34 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 6 | 281.5 | 535.333 | 1580. | 32. | 368602.267 | 607.126 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 6 | 636.5 | 2711.667 | 11600. | 72. | 20295493.867 | 4505.052 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 20 | 9.75 | 8.975 | 22. | 0. | 45.355 | 6.735 | 0. | 0.625 | 14.375 | 16.8 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 1 | 1810. | 1810. | 1810. | 1810. | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 19 | 2720. | 3757.368 | 20700. | 730. | 19364809.357 | 4400.546 | 880. | 2040. | 4250. | 7300. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 12 | 42.5 | 118.417 | 650. | 3. | 37213.902 | 192.909 | 4.5 | 12.5 | 122.5 | 560. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 895. | 915. | 1200. | 430. | 55936.364 | 236.509 | 511. | 755. | 1150. | 1200. |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 12 | 10. | 10.2 | 12.8 | 8.3 | 2.275 | 1.508 | 8.36 | 8.825 | 11.5 | 12.65 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 7 | 8.3 | 8.229 | 8.3 | 8.1 | 0.009 | 0.095 | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 7 | 8.3 | 8.219 | 8.3 | 8.1 | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 7 | 0.005 | 0.006 | 0.008 | 0.005 | 0. | 0.001 | ** | ** | ** | ** |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 7 | 1.6 | 1.857 | 3.1 | 1. | 0.583 | 0.763 | ** | ** | ** | ** |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 12 | 165. | 176.5 | 250. | 98. | 1725.182 | 41.535 | 110.6 | 152.5 | 200. | 244. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 205. | 212.5 | 300. | 120. | 2547.727 | 50.475 | 132. | 182.5 | 240. | 294. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 12 | 0.485 | 0.515 | 0.99 | 0.2 | 0.048 | 0.219 | 0.236 | 0.38 | 0.598 | 0.945 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 12 | 0.09 | 0.228 | 1.2 | 0.01 | 0.118 | 0.344 | 0.016 | 0.045 | 0.235 | 1.017 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 300. | 307.5 | 470. | 140. | 7911.364 | 88.946 | 161. | 262.5 | 380. | 449. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 130. | 131.75 | 220. | 42. | 2355.295 | 48.531 | 53.1 | 110. | 157.5 | 214. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 78. | 80.5 | 120. | 36. | 600.273 | 24.5 | 42. | 68. | 94.5 | 120. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 25. | 24.083 | 40. | 4. | 104.629 | 10.229 | 6.1 | 18. | 30.25 | 39.4 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 82.5 | 86.067 | 160. | 5.8 | 1841.908 | 42.917 | 14.86 | 65. | 122. | 154. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 2.1 | 2.108 | 3.2 | 0.1 | 0.706 | 0.84 | 0.46 | 1.925 | 2.825 | 3.17 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 39. | 36.5 | 44. | 4. | 110.455 | 10.51 | 13.6 | 37.25 | 41.25 | 43.7 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 3.55 | 3.383 | 5.7 | 0.3 | 1.978 | 1.406 | 0.66 | 2.95 | 4.275 | 5.37 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 14. | 16.917 | 40. | 1. | 120.811 | 10.991 | 3.1 | 11. | 23. | 38.2 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|------------|---------|---------|--------------|------------|-------|-------|--------|--------|
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 275. | 303.333 | 560. | 110. | 15206.061 | 123.313 | 137. | 235. | 390. | 533. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.55 | 0.533 | 0.8 | 0.2 | 0.021 | 0.144 | 0.26 | 0.5 | 0.6 | 0.74 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 12 | 8.5 | 7.721 | 13. | 0.05 | 14.348 | 3.788 | 0.695 | 5.35 | 9.9 | 12.7 |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 220. | 341.5 | 1600. | 56. | 184239.364 | 429.231 | 63.2 | 96.5 | 300. | 1324. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 2.342 | 2.335 | 3.204 | 1.748 | 0.164 | 0.405 | 1.795 | 1.983 | 2.476 | 3.093 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 216.096 | | | | | | | | |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 604.5 | 648.75 | 1020. | 320. | 46434.386 | 215.486 | 354.2 | 530. | 831.5 | 1013.4 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 3615. | 3898.333 | 6310. | 1970. | 1879651.515 | 1371.004 | 2015. | 3075. | 5007.5 | 6193. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.825 | 0.883 | 1.39 | 0.44 | 0.086 | 0.293 | 0.485 | 0.722 | 1.13 | 1.381 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 3 | 54. | 45.333 | 62. | 20. | 497.333 | 22.301 | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 3 | 67. | 61.667 | 85. | 33. | 697.333 | 26.407 | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 12 | 2.15 | 2.283 | 4.4 | 0.9 | 0.934 | 0.967 | 1.05 | 1.7 | 2.65 | 4.19 |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 6 | 695.5 | 3411.333 | 11700. | 76. | 23614457.467 | 4859.471 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 6 | 6120. | 125205.833 | 654000. | 185.681 | 22057344.167 | 261002.026 | ** | ** | ** | ** |

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Annual Analysis for 1979 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|-------------|----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 16 | 11.5 | 11.125 | 22. | 0. | 72.683 | 8.525 | 0. | 0.25 | 18.875 | 22. |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 4 | 1680. | 1890. | 2900. | 1300. | 492133.333 | 701.522 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 1315. | 1821.2 | 3890. | 852. | 1125912.178 | 1061.09 | 868.8 | 1117.5 | 2707.5 | 3840. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 10 | 35. | 188.2 | 1000. | 2. | 120223.733 | 346.733 | 2.2 | 4.75 | 230. | 965. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 11 | 1100. | 1041.818 | 1300. | 510. | 50076.364 | 223.777 | 554. | 1080. | 1150. | 1280. |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 10 | 9.7 | 10.22 | 14. | 6.7 | 5.271 | 2.296 | 6.82 | 8.2 | 12.1 | 13.84 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 11 | 8.2 | 8.227 | 9.7 | 7.6 | 0.294 | 0.542 | 7.62 | 8. | 8.3 | 9.42 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 11 | 8.2 | 8.047 | 9.7 | 7.6 | 0.33 | 0.575 | 7.62 | 8. | 8.3 | 9.42 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 11 | 0.006 | 0.009 | 0.025 | 0. | 0. | 0.007 | 0.001 | 0.005 | 0.01 | 0.024 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 11 | 2.5 | 3.109 | 9.6 | 0.1 | 7.817 | 2.796 | 0.34 | 1.8 | 2.8 | 9.14 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 11 | 190. | 178.364 | 200. | 82. | 1317.455 | 36.297 | 93.6 | 180. | 200. | 200. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 11 | 230. | 217.273 | 250. | 100. | 1981.818 | 44.518 | 114. | 220. | 240. | 250. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 11 | 0. | 0.273 | 3. | 0. | 0.818 | 0.905 | 0. | 0. | 0. | 2.4 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 7 | 0.54 | 0.516 | 0.88 | 0.18 | 0.064 | 0.252 | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 4 | 0.3 | 0.65 | 1.8 | 0.2 | 0.59 | 0.768 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 11 | 0.09 | 0.539 | 3.4 | 0.01 | 1.169 | 1.081 | 0.014 | 0.03 | 0.17 | 3.08 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 11 | 340. | 319.091 | 390. | 160. | 4329.091 | 65.796 | 178. | 290. | 360. | 386. |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 11 | 140. | 140.545 | 190. | 78. | 1334.473 | 36.53 | 80. | 110. | 170. | 188. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 11 | 89. | 84.455 | 110. | 42. | 382.473 | 19.557 | 45.8 | 72. | 99. | 108. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 11 | 28. | 26.364 | 30. | 13. | 22.455 | 4.739 | 15.2 | 26. | 29. | 29.8 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 11 | 110. | 110.545 | 190. | 42. | 1269.673 | 35.632 | 50.4 | 100. | 110. | 180. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 11 | 2.5 | 2.709 | 5.2 | 1.5 | 0.937 | 0.968 | 1.6 | 2.3 | 2.7 | 4.88 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 11 | 39. | 41.909 | 61. | 36. | 57.891 | 7.609 | 36. | 37. | 43. | 59. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 11 | 4.3 | 4.645 | 10. | 2. | 3.765 | 1.94 | 2.38 | 4. | 4.8 | 9. |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 11 | 17. | 17.545 | 33. | 6. | 45.873 | 6.773 | 7.2 | 15. | 19. | 31.2 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 11 | 350. | 346.364 | 480. | 160. | 6005.455 | 77.495 | 188. | 330. | 390. | 462. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 11 | 0.6 | 0.6 | 0.7 | 0.3 | 0.012 | 0.11 | 0.36 | 0.6 | 0.7 | 0.7 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 11 | 7.3 | 7.727 | 12. | 4.1 | 6.43 | 2.536 | 4.36 | 6. | 11. | 11.8 |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 10 | 260. | 292. | 590. | 6. | 37461.333 | 193.549 | 13.8 | 111. | 467.5 | 580. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 10 | 2.415 | 2.271 | 2.771 | 0.778 | 0.349 | 0.591 | 0.893 | 2.04 | 2.67 | 2.763 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 186.692 | | | | | | | | |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 11 | 730. | 706.273 | 891. | 323. | 20165.818 | 142.006 | 385.4 | 709. | 766. | 872. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 11 | 2710. | 3069.091 | 5720. | 1740. | 1200849.091 | 1095.833 | 1868. | 2420. | 3440. | 5432. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 11 | 0.99 | 0.959 | 1.21 | 0.44 | 0.037 | 0.193 | 0.524 | 0.96 | 1.04 | 1.184 |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 1 | 87. | 87. | 87. | 87. | 0. | 0. | ** | ** | ** | ** |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 7 | 2.4 | 2.286 | 3.9 | 0.8 | 1.238 | 1.113 | ** | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 4 | 94. | 148. | 357. | 47. | 20427.333 | 142.924 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|------------|-----------|------|------|------|------|
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 4 | 303.5 | 785.75 | 2390. | 146. | 1159184.25 | 1076.654 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 12 | 12.25 | 10.625 | 22. | 0. | 81.642 | 9.036 | 0. | 0.375 | 18.375 | 21.7 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 3 | -2. | 3.833 | 10.5 | -2. | 39.583 | 6.292 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 1920. | 2331. | 5300. | 1100. | 1478832.222 | 1216.072 | 1155. | 1725. | 2562.5 | 5126. |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 6 | 725. | 1286.667 | 3900. | 180. | 2013186.667 | 1418.868 | ** | ** | ** | ** |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 1005. | 987. | 1200. | 730. | 26067.778 | 161.455 | 734. | 845. | 1122.5 | 1199. |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 9 | 8.6 | 9.511 | 13.1 | 6.6 | 5.624 | 2.371 | 6.6 | 7.6 | 12.15 | 13.1 |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 10 | 8.2 | 8.23 | 8.7 | 7.6 | 0.093 | 0.306 | 7.65 | 8.1 | 8.45 | 8.69 |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 10 | 8.2 | 8.125 | 8.7 | 7.6 | 0.106 | 0.325 | 7.65 | 8.1 | 8.45 | 8.69 |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 10 | 0.006 | 0.008 | 0.025 | 0.002 | 0. | 0.007 | 0.002 | 0.004 | 0.008 | 0.023 |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 3 | 8.1 | 8.1 | 8.3 | 7.9 | 0.04 | 0.2 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 3 | 8.1 | 8.07 | 8.3 | 7.9 | 0.041 | 0.203 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 3 | 0.008 | 0.009 | 0.013 | 0.005 | 0. | 0.004 | ** | ** | ** | ** |
| 00405 CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 10 | 1.95 | 2.38 | 8. | 0.6 | 4.475 | 2.115 | 0.62 | 1.175 | 2.825 | 7.49 |
| 00410p ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 7 | 160. | 160. | 190. | 130. | 533.333 | 23.094 | ** | ** | ** | ** |
| 00440p BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 10 | 200. | 199. | 230. | 160. | 565.556 | 23.781 | 160. | 182.5 | 220. | 229. |
| 00445p CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 10 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 10 | 0.3 | 0.487 | 2. | 0.07 | 0.339 | 0.582 | 0.073 | 0.1 | 0.525 | 1.89 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 10 | 0.16 | 0.259 | 0.7 | 0. | 0.052 | 0.228 | 0.008 | 0.11 | 0.423 | 0.688 |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 10 | 305. | 295. | 340. | 230. | 1516.667 | 38.944 | 230. | 267.5 | 330. | 339. |
| 00902p HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 10 | 140. | 132.8 | 150. | 99. | 415.956 | 20.395 | 99. | 114.75 | 150. | 150. |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 10 | 76. | 75.7 | 88. | 54. | 104.678 | 10.231 | 55.2 | 71.25 | 84.25 | 88. |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 10 | 27. | 25.1 | 29. | 16. | 15.656 | 3.957 | 16.6 | 22.75 | 28. | 28.9 |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 10 | 86. | 87.1 | 120. | 52. | 394.1 | 19.852 | 53.3 | 75.5 | 100.25 | 119. |
| 00931p SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 10 | 2.2 | 2.21 | 2.9 | 1.5 | 0.154 | 0.393 | 1.54 | 1.975 | 2.45 | 2.87 |
| 00932p SODIUM, PERCENT | 12/01/49-02/16/83 | 10 | 39. | 38.8 | 44. | 33. | 10.4 | 3.225 | 33.3 | 36. | 41.25 | 43.8 |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 10 | 3.8 | 3.81 | 5.5 | 2.5 | 1.063 | 1.031 | 2.5 | 2.875 | 4.725 | 5.43 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 10 | 13.5 | 14.1 | 24. | 7. | 25.878 | 5.087 | 7.2 | 10.5 | 17.75 | 23.6 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 10 | 295. | 291. | 370. | 190. | 3121.111 | 55.867 | 193. | 257.5 | 330. | 369. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 10 | 0.55 | 0.58 | 0.7 | 0.5 | 0.008 | 0.092 | 0.5 | 0.5 | 0.7 | 0.7 |
| 00955p SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 10 | 8.5 | 7.99 | 13. | 5. | 6.15 | 2.48 | 5.04 | 5.4 | 9.15 | 12.69 |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 9 | 230. | 821.222 | 5000. | 1. | 2505605.944 | 1582.911 | 1. | 155. | 645. | 5000. |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 9 | 2.362 | 2.324 | 3.699 | 0. | 0.982 | 0.991 | 0. | 2.188 | 2.806 | 3.699 |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 210.813 | | | | | | | | |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 10 | 615. | 602.5 | 740. | 410. | 10718.056 | 103.528 | 416. | 545. | 665. | 740. |
| 70302p SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 10 | 3175. | 3354. | 5870. | 1870. | 1453804.444 | 1205.738 | 1883. | 2502.5 | 4017.5 | 5735. |
| 70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 10 | 0.84 | 0.822 | 1.01 | 0.56 | 0.02 | 0.141 | 0.568 | 0.745 | 0.905 | 1.01 |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 46.5 | 46.5 | 77. | 16. | 1860.5 | 43.134 | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 60. | 60. | 95. | 25. | 2450. | 49.497 | ** | ** | ** | ** |
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 10 | 560.5 | 590.5 | 1300. | 46. | 242250.5 | 492.189 | 48.2 | 105.5 | 1172.5 | 1288. |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 10 | 3050. | 4691.7 | 16700. | 236. | 31817074.233 | 5640.663 | 247.4 | 354.5 | 7572.5 | 16280. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|-------|-------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 12 | 13.5 | 12.125 | 23. | 0. | 60.051 | 7.749 | 0.3 | 5.375 | 18.75 | 22.7 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 11 | 20. | 17. | 27. | -5. | 111.8 | 10.574 | 4.6 | -5. | 27. | 27. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|-----------|---------|---------|----------------|-----------|-------|--------|--------|---------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 12 | 1530. | 1780.75 | 5260. | 712. | 1462675.114 | 1209.411 | 731.5 | 1045. | 1865. | 4453. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 12 | 1110. | 1037.5 | 1250. | 650. | 36365.909 | 190.698 | 662. | 962.5 | 1170. | 1235. |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 10 | 8.35 | 8.24 | 8.6 | 7.7 | 0.083 | 0.288 | 7.72 | 7.975 | 8.425 | 8.59 |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 10 | 8.347 | 8.146 | 8.6 | 7.7 | 0.093 | 0.304 | 7.72 | 7.975 | 8.425 | 8.59 |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 10 | 0.004 | 0.007 | 0.02 | 0.003 | 0. | 0.006 | 0.003 | 0.004 | 0.011 | 0.019 |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 12 | 8.15 | 8.133 | 8.4 | 7.7 | 0.044 | 0.21 | 7.73 | 8.1 | 8.275 | 8.4 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 12 | 8.147 | 8.081 | 8.4 | 7.7 | 0.047 | 0.217 | 7.73 | 8.1 | 8.275 | 8.4 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 12 | 0.007 | 0.008 | 0.02 | 0.004 | 0. | 0.005 | 0.004 | 0.005 | 0.008 | 0.019 |
| 00405 CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 10 | 1.7 | 2.52 | 7.3 | 0.8 | 3.904 | 1.976 | 0.81 | 1.35 | 3.625 | 6.97 |
| 00440p BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 12 | 230. | 217.5 | 240. | 180. | 475. | 21.794 | 180. | 200. | 230. | 240. |
| 00445p CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 12 | 0. | 0.75 | 6. | 0. | 3.477 | 1.865 | 0. | 0. | 0. | 5.1 |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 12 | 0.35 | 0.467 | 1.6 | 0.1 | 0.186 | 0.431 | 0.13 | 0.2 | 0.55 | 1.42 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 12 | 0.08 | 0.103 | 0.33 | 0.03 | 0.006 | 0.079 | 0.033 | 0.063 | 0.11 | 0.276 |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 12 | 325. | 317.5 | 390. | 180. | 2947.727 | 54.293 | 204. | 302.5 | 350. | 381. |
| 00902p HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 12 | 145. | 136.333 | 190. | 16. | 1910.424 | 43.708 | 44.2 | 122.5 | 160. | 184. |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 12 | 86. | 78.5 | 94. | 50. | 226.455 | 15.048 | 50.3 | 68.75 | 87. | 93.7 |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 12 | 30.5 | 29.5 | 42. | 14. | 54.455 | 7.379 | 16.4 | 25. | 33. | 40.8 |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 12 | 100. | 99.5 | 120. | 69. | 169.364 | 13.014 | 74.7 | 94.5 | 110. | 117. |
| 00931p SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 12 | 2.3 | 2.458 | 3.2 | 1.9 | 0.126 | 0.355 | 1.99 | 2.225 | 2.775 | 3.08 |
| 00932p SODIUM, PERCENT | 12/01/49-02/16/83 | 12 | 38.5 | 40.417 | 54. | 35. | 24.447 | 4.944 | 35.6 | 38. | 42. | 51. |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 12 | 4.3 | 4.25 | 5.5 | 3.2 | 0.474 | 0.688 | 3.26 | 3.725 | 4.85 | 5.35 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 12 | 17. | 17.5 | 27. | 11. | 18.386 | 4.288 | 11.9 | 15. | 20. | 25.8 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 12 | 335. | 326.667 | 380. | 230. | 2478.788 | 49.787 | 233. | 310. | 367.5 | 380. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 12 | 0.6 | 0.617 | 0.9 | 0.3 | 0.029 | 0.17 | 0.36 | 0.5 | 0.775 | 0.87 |
| 00955p SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 12 | 8. | 7.708 | 9.2 | 5. | 1.897 | 1.377 | 5.33 | 6.575 | 8.95 | 9.17 |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 11 | 110. | 1476.273 | 13300. | 9. | 15745478.818 | 3968.057 | 11.6 | 24. | 220. | 11060. |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 11 | 2.041 | 2.132 | 4.124 | 0.954 | 0.835 | 0.914 | 1.032 | 1.38 | 2.342 | 3.964 |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 135.439 | | | | | | | | |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 12 | 680. | 671.167 | 770. | 510. | 7034.697 | 83.873 | 513. | 645. | 732.75 | 770. |
| 70302p SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 12 | 2865. | 3018.333 | 7390. | 1480. | 2339760.606 | 1529.628 | 1522. | 1990. | 3262.5 | 6235. |
| 70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 12 | 0.925 | 0.913 | 1.05 | 0.69 | 0.013 | 0.115 | 0.696 | 0.877 | 0.995 | 1.05 |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 70. | 70. | 72. | 68. | 8. | 2.828 | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 90.5 | 90.5 | 95. | 86. | 40.5 | 6.364 | ** | ** | ** | ** |
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 12 | 186.5 | 2169. | 18100. | 66. | 28222903.091 | 5312.523 | 66.9 | 108.5 | 303.5 | 14542. |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 12 | 758.5 | 24524.583 | 257000. | 133. | 5431982756.083 | 73701.986 | 180.1 | 297.25 | 1862.5 | 188960. |

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Annual Analysis for 1982 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 8 | 11.25 | 10.875 | 23. | 0. | 62.911 | 7.932 | ** | ** | ** | ** |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 8 | 18.25 | 14.125 | 27.5 | -10. | 142.554 | 11.94 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 8 | 1377.5 | 1635.625 | 2590. | 680. | 420910.268 | 648.776 | ** | ** | ** | ** |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 8 | 1050. | 965. | 1150. | 650. | 37285.714 | 193.095 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 8 | 7.95 | 7.975 | 8.2 | 7.8 | 0.016 | 0.128 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 8 | 7.947 | 7.959 | 8.2 | 7.8 | 0.017 | 0.129 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 8 | 0.011 | 0.011 | 0.016 | 0.006 | 0. | 0.003 | ** | ** | ** | ** |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 8 | 0.4 | 0.388 | 0.6 | 0.2 | 0.033 | 0.181 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 8 | 0.21 | 0.235 | 0.47 | 0.01 | 0.023 | 0.151 | ** | ** | ** | ** |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 8 | 305. | 300. | 370. | 190. | 3314.286 | 57.57 | ** | ** | ** | ** |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 8 | 80. | 76.75 | 96. | 52. | 223.071 | 14.936 | ** | ** | ** | ** |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 8 | 26. | 26.125 | 32. | 15. | 28.982 | 5.384 | ** | ** | ** | ** |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 8 | 87.5 | 85.625 | 110. | 54. | 333.982 | 18.275 | ** | ** | ** | ** |
| 00931p SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 8 | 2.2 | 2.138 | 2.6 | 1.7 | 0.086 | 0.292 | ** | ** | ** | ** |
| 00932p SODIUM, PERCENT | 12/01/49-02/16/83 | 8 | 38. | 37.875 | 40. | 36. | 2.982 | 1.727 | ** | ** | ** | ** |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 8 | 3.35 | 3.513 | 4.7 | 2.2 | 0.67 | 0.818 | ** | ** | ** | ** |

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Annual Analysis for 1982 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 8 | 12. | 12.375 | 17. | 6. | 14.839 | 3.852 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 8 | 295. | 285. | 360. | 180. | 3628.571 | 60.238 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 8 | 0.55 | 0.563 | 0.8 | 0.3 | 0.048 | 0.22 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 8 | 8.15 | 9.462 | 15. | 5.9 | 10.52 | 3.243 | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 8 | 615. | 600. | 730. | 390. | 13485.714 | 116.128 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 8 | 2515. | 3373.75 | 6710. | 2090. | 2578283.929 | 1605.704 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 8 | 0.835 | 0.815 | 0.99 | 0.53 | 0.025 | 0.158 | ** | ** | ** | ** |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 1 | 48. | 48. | 48. | 48. | 0. | 0. | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 1 | 63. | 63. | 63. | 63. | 0. | 0. | ** | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 8 | 321.5 | 293.375 | 575. | 51. | 31291.125 | 176.893 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 7 | 1100. | 1293.857 | 2530. | 190. | 633650.81 | 796.022 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 10 | 12. | 10.65 | 22. | 0. | 57.836 | 7.605 | 0.3 | 3. | 16.875 | 21.6 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 10 | 15.5 | 15.9 | 29. | 5.5 | 76.6 | 8.752 | 5.55 | 7.5 | 23.875 | 28.75 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 2725. | 3397. | 7940. | 1260. | 4487267.778 | 2118.317 | 1340. | 2165. | 4107.5 | 7793. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 765. | 800. | 1050. | 580. | 18755.556 | 136.951 | 593. | 717.5 | 910. | 1039. |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 10 | 7.95 | 7.96 | 8.3 | 7.4 | 0.074 | 0.272 | 7.44 | 7.8 | 8.225 | 8.3 |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 10 | 7.947 | 7.876 | 8.3 | 7.4 | 0.082 | 0.286 | 7.44 | 7.8 | 8.225 | 8.3 |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 10 | 0.011 | 0.013 | 0.04 | 0.005 | 0. | 0.01 | 0.005 | 0.006 | 0.016 | 0.037 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 10 | 0.3 | 0.33 | 0.5 | 0.2 | 0.013 | 0.116 | 0.2 | 0.2 | 0.425 | 0.5 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 10 | 0.12 | 0.257 | 1.33 | 0. | 0.162 | 0.402 | 0. | 0.023 | 0.35 | 1.235 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 2 | 265. | 265. | 270. | 260. | 50. | 7.071 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 10 | 68. | 66. | 80. | 45. | 126. | 11.225 | 45.4 | 60.25 | 72.75 | 79.8 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 10 | 23.5 | 22.7 | 32. | 14. | 25.789 | 5.078 | 14.3 | 19.25 | 25.5 | 31.5 |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 10 | 74. | 75.3 | 98. | 49. | 166.233 | 12.893 | 50.6 | 71. | 81.75 | 96.9 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 2 | 2.05 | 2.05 | 2.1 | 2. | 0.005 | 0.071 | ** | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 2 | 38.5 | 38.5 | 39. | 38. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 10 | 2.95 | 3.06 | 4.6 | 2.3 | 0.614 | 0.783 | 2.3 | 2.3 | 3.6 | 4.53 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 10 | 11. | 11.5 | 16. | 7. | 8.5 | 2.915 | 7.2 | 9. | 14.25 | 15.9 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 10 | 240. | 240. | 310. | 150. | 2444.444 | 49.441 | 153. | 210. | 277.5 | 309. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 10 | 0.3 | 0.33 | 0.5 | 0.2 | 0.009 | 0.095 | 0.2 | 0.275 | 0.4 | 0.49 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 10 | 9.65 | 9.54 | 10. | 8.4 | 0.278 | 0.527 | 8.48 | 9.2 | 10. | 10. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 2 | 535. | 535. | 560. | 510. | 1250. | 35.355 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 2 | 4040. | 4040. | 5020. | 3060. | 1920800. | 1385.929 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 2 | 0.725 | 0.725 | 0.76 | 0.69 | 0.002 | 0.049 | ** | ** | ** | ** |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 1 | 96. | 96. | 96. | 96. | 0. | 0. | ** | ** | ** | ** |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 1 | 98. | 98. | 98. | 98. | 0. | 0. | ** | ** | ** | ** |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 1 | 69. | 69. | 69. | 69. | 0. | 0. | ** | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 1 | 81. | 81. | 81. | 81. | 0. | 0. | ** | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 10 | 155.5 | 657.1 | 3880. | 20. | 1442960.544 | 1201.233 | 22.7 | 102.5 | 638.5 | 3631. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|--------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 10 | 13.5 | 10.8 | 20. | 0. | 56.344 | 7.506 | 0. | 3. | 16.625 | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 10 | 22.25 | 17.3 | 30. | 2. | 105.567 | 10.275 | 2.3 | 5.75 | 24.875 | 29.6 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|-------|--------|--------|--------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 2300. | 3065. | 6960. | 1510. | 3911183.333 | 1977.671 | 1520. | 1760. | 4050. | 6900. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 835. | 868.5 | 1220. | 610. | 36500.278 | 191.05 | 620. | 721.25 | 972.5 | 1214. |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 5 | 9. | 9.78 | 12.6 | 8.1 | 3.362 | 1.834 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 8.3 | 8.24 | 8.4 | 8. | 0.033 | 0.182 | ** | ** | ** | ** |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 8.3 | 8.209 | 8.4 | 8. | 0.034 | 0.185 | ** | ** | ** | ** |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 5 | 0.005 | 0.006 | 0.01 | 0.004 | 0. | 0.003 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 10 | 8.05 | 8.09 | 8.4 | 7.6 | 0.092 | 0.303 | 7.61 | 7.85 | 8.4 | 8.4 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 10 | 8.047 | 7.993 | 8.4 | 7.6 | 0.102 | 0.32 | 7.61 | 7.85 | 8.4 | 8.4 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 10 | 0.009 | 0.01 | 0.025 | 0.004 | 0. | 0.007 | 0.004 | 0.004 | 0.014 | 0.025 |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 10 | 0.4 | 0.37 | 0.6 | 0.2 | 0.02 | 0.142 | 0.2 | 0.2 | 0.5 | 0.59 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 10 | 0.06 | 0.049 | 0.09 | 0. | 0.001 | 0.036 | 0. | 0.008 | 0.083 | 0.09 |
| 00915p CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 10 | 75. | 71.3 | 84. | 45. | 185.122 | 13.606 | 45.3 | 66. | 79.75 | 83.8 |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 10 | 26.5 | 24.8 | 32. | 14. | 33.067 | 5.75 | 14.1 | 22.5 | 28. | 31.6 |
| 00930p SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 10 | 85. | 77.1 | 97. | 40. | 410.767 | 20.267 | 40. | 68.5 | 90. | 96.3 |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 10 | 3.15 | 3.07 | 3.8 | 1.9 | 0.365 | 0.604 | 1.96 | 2.575 | 3.625 | 3.79 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 10 | 12. | 12.4 | 18. | 5. | 18.044 | 4.248 | 5.1 | 10.5 | 15.5 | 17.9 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 10 | 280. | 258. | 330. | 130. | 4595.556 | 67.791 | 131. | 230. | 295. | 328. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 10 | 0.3 | 0.31 | 0.5 | 0.1 | 0.014 | 0.12 | 0.11 | 0.2 | 0.4 | 0.49 |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 10 | 8.65 | 9.13 | 13. | 6.2 | 4.562 | 2.136 | 6.31 | 7.45 | 10.5 | 12.9 |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 100. | 108. | 140. | 90. | 470. | 21.679 | ** | ** | ** | ** |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 2. | 2.027 | 2.146 | 1.954 | 0.007 | 0.084 | ** | ** | ** | ** |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 106.355 | | | | | | | | |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 1 | 72. | 72. | 72. | 72. | 0. | 0. | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 1 | 90. | 90. | 90. | 90. | 0. | 0. | ** | ** | ** | ** |
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 10 | 195.5 | 369.6 | 1480. | 49. | 193106.711 | 439.439 | 50.1 | 81.75 | 562.75 | 1394.8 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 11 | 10. | 9.364 | 23. | 0. | 70.255 | 8.382 | 0. | 0. | 16. | 22. |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 11 | 15. | 10.636 | 26. | -10. | 123.255 | 11.102 | 3.5 | -3. | 24.5 | -2.8 |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 11 | 1350. | 1336.636 | 2120. | 751. | 204799.655 | 452.548 | 752.4 | 764. | 1710. | 2038. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 1045. | 1051. | 1330. | 880. | 22387.778 | 149.625 | 880. | 895. | 1135. | 1321. |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 5 | 10.5 | 10.32 | 11.9 | 8.6 | 2.652 | 1.628 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 7 | 8.2 | 8.214 | 8.4 | 8. | 0.025 | 0.157 | ** | ** | ** | ** |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 7 | 8.2 | 8.19 | 8.4 | 8. | 0.025 | 0.159 | ** | ** | ** | ** |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 7 | 0.006 | 0.006 | 0.01 | 0.004 | 0. | 0.002 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 11 | 8.1 | 8.064 | 8.4 | 7.7 | 0.041 | 0.201 | 7.72 | 8. | 8.2 | 8.38 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 11 | 8.1 | 8.02 | 8.4 | 7.7 | 0.043 | 0.206 | 7.72 | 8. | 8.2 | 8.38 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 11 | 0.008 | 0.01 | 0.02 | 0.004 | 0. | 0.005 | 0.004 | 0.006 | 0.01 | 0.019 |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 11 | 0.4 | 0.482 | 1.2 | 0. | 0.102 | 0.319 | 0.04 | 0.3 | 0.7 | 1.1 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 11 | 0.08 | 0.654 | 6. | 0. | 3.158 | 1.777 | 0.002 | 0.02 | 0.3 | 4.87 |
| 00915p CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 11 | 89. | 84.273 | 96. | 58. | 142.418 | 11.934 | 61. | 75. | 94. | 95.8 |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 11 | 30. | 30. | 40. | 15. | 41.4 | 6.434 | 17.2 | 27. | 34. | 39. |
| 00930p SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 11 | 97. | 99.364 | 140. | 76. | 373.255 | 19.32 | 76.8 | 84. | 110. | 136. |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 11 | 3.7 | 3.818 | 5. | 2.8 | 0.43 | 0.655 | 2.88 | 3.3 | 4.3 | 4.88 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 11 | 16. | 15.636 | 19. | 9. | 9.055 | 3.009 | 9.8 | 14. | 19. | 19. |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 11 | 340. | 340.909 | 470. | 250. | 5549.091 | 74.492 | 250. | 270. | 390. | 464. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 11 | 0.4 | 0.4 | 1. | 0.1 | 0.068 | 0.261 | 0.12 | 0.2 | 0.5 | 0.94 |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 11 | 6.9 | 6.909 | 8.4 | 5.5 | 0.895 | 0.946 | 5.5 | 6.3 | 7.5 | 8.36 |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 150. | 202.8 | 530. | 32. | 43177.2 | 207.791 | ** | ** | ** | ** |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 2.176 | 2.068 | 2.724 | 1.505 | 0.302 | 0.55 | ** | ** | ** | ** |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 117.059 | | | | | | | | |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 1 | 67. | 67. | 67. | 67. | 0. | 0. | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 1 | 76. | 76. | 76. | 76. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|------|------|------|---------|
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 11 | 128. | 1417.364 | 14200. | 78. | 17980095.455 | 4240.294 | 79.4 | 87. | 146. | 11434.4 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 10 | 8. | 8.6 | 20. | 0. | 62.989 | 7.937 | 0. | 0.375 | 16.625 | 20. |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 10 | 7.75 | 11. | 28. | 1.5 | 96.389 | 9.818 | 1.55 | 2. | 21.75 | 27.6 |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 9 | 2440. | 2952.222 | 6850. | 1410. | 3091669.444 | 1758.314 | 1410. | 1690. | 3755. | 6850. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 920. | 815.7 | 1020. | 537. | 36772.678 | 191.762 | 539.8 | 572.5 | 965. | 1016. |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 5 | 11.2 | 10.94 | 13.6 | 7.8 | 4.708 | 2.17 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 6 | 8.15 | 8.067 | 8.2 | 7.7 | 0.039 | 0.197 | ** | ** | ** | ** |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 6 | 8.147 | 8.024 | 8.2 | 7.7 | 0.041 | 0.202 | ** | ** | ** | ** |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 6 | 0.007 | 0.009 | 0.02 | 0.006 | 0. | 0.005 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 5 | 8.1 | 8.14 | 8.5 | 7.7 | 0.103 | 0.321 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 5 | 8.1 | 8.045 | 8.5 | 7.7 | 0.114 | 0.338 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 5 | 0.008 | 0.009 | 0.02 | 0.003 | 0. | 0.007 | ** | ** | ** | ** |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 5 | 0.3 | 0.74 | 2.4 | 0.2 | 0.873 | 0.934 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 7 | 0.12 | 0.201 | 0.62 | 0.02 | 0.041 | 0.204 | ** | ** | ** | ** |
| 00915p CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 5 | 70. | 66.4 | 89. | 40. | 341.3 | 18.474 | ** | ** | ** | ** |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 5 | 24. | 22.8 | 35. | 12. | 82.7 | 9.094 | ** | ** | ** | ** |
| 00930p SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 5 | 83. | 76.8 | 98. | 38. | 517.7 | 22.753 | ** | ** | ** | ** |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 5 | 3.7 | 3.66 | 5.6 | 2. | 1.768 | 1.33 | ** | ** | ** | ** |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 5 | 12. | 12.2 | 19. | 6. | 23.2 | 4.817 | ** | ** | ** | ** |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 5 | 270. | 242. | 320. | 120. | 5670. | 75.299 | ** | ** | ** | ** |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 5 | 0.4 | 0.38 | 0.7 | 0.1 | 0.057 | 0.239 | ** | ** | ** | ** |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 5 | 7. | 6.56 | 7.6 | 4.9 | 1.113 | 1.055 | ** | ** | ** | ** |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 133. | 130.6 | 150. | 93. | 516.3 | 22.722 | ** | ** | ** | ** |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 2.124 | 2.11 | 2.176 | 1.968 | 0.007 | 0.083 | ** | ** | ** | ** |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 128.806 | | | | | | | | |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 46. | 46. | 62. | 30. | 512. | 22.627 | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 60.5 | 60.5 | 77. | 44. | 544.5 | 23.335 | ** | ** | ** | ** |
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 9 | 234. | 698.889 | 3490. | 60. | 1268868.861 | 1126.441 | 60. | 129.5 | 870. | 3490. |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 1 | 44400. | 44400. | 44400. | 44400. | 0. | 0. | ** | ** | ** | ** |

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Annual Analysis for 1987 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 14 | 14.5 | 12.679 | 23. | 0. | 45.062 | 6.713 | 0. | 8.875 | 16. | 21.25 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 14 | 15. | 15.75 | 29. | -3. | 57.875 | 7.608 | 3. | 12.5 | 21.125 | 25.5 |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 14 | 1810. | 2015.929 | 4110. | 793. | 860892.071 | 927.843 | 846.5 | 1297.5 | 2650. | 3670. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 11 | 920. | 951.818 | 1190. | 840. | 10596.364 | 102.939 | 844. | 880. | 1000. | 1168. |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 4 | 9.5 | 9.85 | 12.6 | 7.8 | 4.11 | 2.027 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 6 | 8.2 | 8.183 | 8.4 | 8. | 0.018 | 0.133 | ** | ** | ** | ** |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 6 | 8.2 | 8.167 | 8.4 | 8. | 0.018 | 0.134 | ** | ** | ** | ** |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 6 | 0.006 | 0.007 | 0.01 | 0.004 | 0. | 0.002 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 1 | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 6 | 0.055 | 1.627 | 9.5 | 0.02 | 14.878 | 3.857 | ** | ** | ** | ** |
| 00915p CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 1 | 82. | 82. | 82. | 82. | 0. | 0. | ** | ** | ** | ** |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|------|------|------|--------|
| 00930p SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 1 | 85. | 85. | 85. | 85. | 0. | 0. | ** | ** | ** | ** |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 123. | 120. | 230. | 0. | 7714.5 | 87.832 | ** | ** | ** | ** |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 5 | 2.09 | 1.714 | 2.362 | 0. | 0.949 | 0.974 | ** | ** | ** | ** |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 51.727 | | | | | | | | |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 1 | 74. | 74. | 74. | 74. | 0. | 0. | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 1 | 85. | 85. | 85. | 85. | 0. | 0. | ** | ** | ** | ** |
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 11 | 262. | 362.273 | 1140. | 40. | 106848.618 | 326.877 | 54. | 123. | 563. | 1053.2 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 11 | 9.5 | 11. | 26.5 | 0. | 78.1 | 8.837 | 0. | 1. | 19. | 25.3 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 11 | 15. | 16.227 | 34. | 1. | 105.418 | 10.267 | 1.8 | 8. | 25. | 32.5 |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 11 | 955. | 1400.091 | 4670. | 598. | 1376557.091 | 1173.268 | 607.2 | 735. | 1470. | 4158. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 1090. | 1015. | 1260. | 490. | 54650. | 233.773 | 522. | 892.5 | 1185. | 1254. |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 4 | 10.95 | 10.5 | 11.8 | 8.3 | 2.353 | 1.534 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 10 | 8.25 | 8.29 | 8.6 | 7.9 | 0.054 | 0.233 | 7.91 | 8.15 | 8.5 | 8.59 |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 10 | 8.247 | 8.233 | 8.6 | 7.9 | 0.058 | 0.241 | 7.91 | 8.15 | 8.5 | 8.59 |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 10 | 0.006 | 0.006 | 0.013 | 0.003 | 0. | 0.003 | 0.003 | 0.003 | 0.007 | 0.012 |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 5 | 8.1 | 8.04 | 8.3 | 7.7 | 0.048 | 0.219 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 5 | 8.1 | 7.993 | 8.3 | 7.7 | 0.051 | 0.225 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 5 | 0.008 | 0.01 | 0.02 | 0.005 | 0. | 0.006 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 4 | 0.025 | 0.153 | 0.54 | 0.02 | 0.067 | 0.258 | ** | ** | ** | ** |
| 00915p CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 6 | 87.5 | 88.833 | 110. | 64. | 243.367 | 15.6 | ** | ** | ** | ** |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 6 | 32.5 | 32.333 | 41. | 19. | 71.867 | 8.477 | ** | ** | ** | ** |
| 00930p SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 6 | 104.5 | 101. | 120. | 75. | 452.8 | 21.279 | ** | ** | ** | ** |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 6 | 8.05 | 7.467 | 9.5 | 4.8 | 4.347 | 2.085 | ** | ** | ** | ** |
| 31625 FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 4 | 22. | 286.125 | 1100. | 0.5 | 294523.396 | 542.7 | ** | ** | ** | ** |
| 31625 LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 4 | 1.326 | 1.348 | 3.041 | -0.301 | 1.872 | 1.368 | ** | ** | ** | ** |
| 31625 GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 22.28 | | | | | | | | |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 1 | 34. | 34. | 34. | 34. | 0. | 0. | ** | ** | ** | ** |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 1 | 51. | 51. | 51. | 51. | 0. | 0. | ** | ** | ** | ** |
| 80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 10 | 151. | 1319.4 | 9840. | 26. | 9401825.6 | 3066.24 | 26.8 | 58.75 | 848.25 | 9078.3 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 9 | 13. | 12.167 | 25. | 0. | 75.875 | 8.711 | 0. | 3. | 18.75 | 25. |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 9 | 17.5 | 15.056 | 32. | -8. | 170.028 | 13.039 | 8. | -4.5 | 25. | 32. |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 9 | 1230. | 1226.111 | 1750. | 684. | 178874.111 | 422.935 | 684. | 780.5 | 1630. | 1750. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 8 | 1075. | 1026.25 | 1240. | 620. | 34891.071 | 186.792 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 5 | 9. | 9.28 | 11.5 | 7.6 | 2.517 | 1.587 | ** | ** | ** | ** |
| 00400p PH (STANDARD UNITS) | 03/26/47-04/14/97 | 8 | 8.15 | 8.2 | 8.6 | 7.6 | 0.123 | 0.351 | ** | ** | ** | ** |
| 00400p CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 8 | 8.147 | 8.073 | 8.6 | 7.6 | 0.141 | 0.376 | ** | ** | ** | ** |
| 00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 8 | 0.007 | 0.008 | 0.025 | 0.003 | 0. | 0.007 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 3 | 8. | 8. | 8.1 | 7.9 | 0.01 | 0.1 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 3 | 8. | 7.992 | 8.1 | 7.9 | 0.01 | 0.1 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 3 | 0.01 | 0.01 | 0.013 | 0.008 | 0. | 0.002 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 3 | 0.1 | 0.093 | 0.13 | 0.05 | 0.002 | 0.04 | ** | ** | ** | ** |
| 00915p CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 3 | 95. | 85.333 | 110. | 51. | 940.333 | 30.665 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|---------|------|-------|-------|
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 3 | 31. | 28. | 38. | 15. | 139. | 11.79 | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 3 | 110. | 89. | 110. | 47. | 1323. | 36.373 | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 3 | 10. | 9.467 | 11. | 7.4 | 3.453 | 1.858 | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 2 | 115. | 115. | 120. | 110. | 50. | 7.071 | ** | ** | ** |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 3 | 28. | 141.333 | 370. | 26. | 39217.333 | 198.034 | ** | ** | ** |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 3 | 1.447 | 1.81 | 2.568 | 1.415 | 0.431 | 0.657 | ** | ** | ** |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 64.582 | | | | | | | |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 9 | 202. | 322.889 | 757. | 19. | 65357.111 | 255.65 | 19. | 182.5 | 568.5 |
| | | | | | | | | | | | | 757. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|------------|---------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 9 | 15. | 14.667 | 26. | 0. | 87.313 | 9.344 | 0. | 5.5 | 23. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 8 | 24.5 | 19. | 34. | -9. | 234.071 | 15.299 | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 8 | 1350. | 1524.375 | 3870. | 820. | 953646.268 | 976.548 | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 5 | 920. | 924. | 950. | 900. | 630. | 25.1 | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 8.1 | 8.24 | 8.7 | 8. | 0.078 | 0.279 | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 5 | 8.1 | 8.182 | 8.7 | 8. | 0.082 | 0.287 | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 5 | 0.008 | 0.007 | 0.01 | 0.002 | 0. | 0.003 | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 1 | 8.7 | 8.7 | 8.7 | 8.7 | 0. | 0. | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 1 | 8.7 | 8.7 | 8.7 | 8.7 | 0. | 0. | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 1 | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 5 | 110. | 114. | 130. | 100. | 130. | 11.402 | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 8 | 172.5 | 408.25 | 2000. | 38. | 436438.5 | 660.635 | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|---------|---------|----------|--------------|----------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 9 | 16.5 | 13.833 | 25. | 0. | 84. | 9.165 | 0. | 4.25 | 21.75 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 9 | 21. | 19.722 | 34. | 4. | 155.194 | 12.458 | 4. | 6.75 | 33. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 2280. | 4681. | 13700. | 1080. | 19691476.667 | 4437.508 | 1091. | 1437.5 | 8700. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 9 | 890. | 848.333 | 1200. | 535. | 46293.75 | 215.16 | 535. | 635. | 967.5 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 2 | 8.45 | 8.45 | 8.6 | 8.3 | 0.045 | 0.212 | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 2 | 8.425 | 8.425 | 8.6 | 8.3 | 0.046 | 0.215 | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 2 | 0.004 | 0.004 | 0.005 | 0.003 | 0. | 0.002 | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 03/26/47-03/14/91 | 1 | 93. | 93. | 93. | 93. | 0. | 0. | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 11/07/51-03/14/91 | 1 | 92. | 92. | 92. | 92. | 0. | 0. | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 03/26/47-03/14/91 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 2 | 125. | 125. | 140. | 110. | 450. | 21.213 | ** | ** | ** |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 2 | 33. | 33. | 51. | 15. | 648. | 25.456 | ** | ** | ** |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 2 | 48. | 48. | 74. | 22. | 1352. | 36.77 | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 9 | 380. | 2644. | 14740. | 45. | 23223990.5 | 4819.128 | 45. | 130.5 | 3355. |
| | | | | | | | | | | | | 14740. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 11 | 12. | 10.682 | 19. | 0. | 46.064 | 6.787 | 0. | 5. | 16.5 | 18.7 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 11 | 19. | 14.5 | 24. | -4. | 94.75 | 9.734 | 5. | 6. | 23. | 23.9 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 1215. | 1466.3 | 2530. | 849. | 376524.456 | 613.616 | 856.5 | 1026. | 2065. | 2518. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 11 | 1080. | 1000.455 | 1140. | 740. | 22452.273 | 149.841 | 744. | 820. | 1095. | 1134. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 9 | 140. | 928.667 | 6500. | 54. | 4434994.75 | 2105.943 | 54. | 70. | 590.5 | 6500. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 11 | 9. | 7.955 | 19.5 | 0. | 61.573 | 7.847 | 0. | 0. | 14. | 19.2 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 11 | 14. | 9.864 | 28. | -10. | 192.705 | 13.882 | 1. | 9.5 | 26. | -2.4 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 11 | 1720. | 1817.364 | 4660. | 905. | 1109838.455 | 1053.489 | 909.2 | 1070. | 1900. | 4226. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 11 | 920. | 953.909 | 1250. | 458. | 46672.091 | 216.037 | 518.4 | 885. | 1100. | 1222. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 10 | 10.5 | 11.77 | 25.5 | 0. | 89.873 | 9.48 | 0. | 3.375 | 21.25 | 25.21 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 10 | 21.95 | 15.34 | 41. | -18. | 296.594 | 17.222 | 7.11 | 2.325 | 35.75 | -12.1 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 10 | 1080. | 1052.3 | 1420. | 644. | 88927.567 | 298.207 | 646.1 | 764.75 | 1315. | 1417. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 10 | 1100. | 1146.8 | 1820. | 693. | 97085.733 | 311.586 | 711.7 | 996.25 | 1242.5 | 1787. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 8 | 11.95 | 11.413 | 20.9 | 0. | 54.356 | 7.373 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 8 | 16.15 | 16.788 | 42. | -0.2 | 157.181 | 12.537 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 8 | 1920. | 3894.375 | 10400. | 808. | 14221048.554 | 3771.081 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 8 | 854.5 | 966.875 | 1850. | 530. | 189612.411 | 435.445 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 7 | 10.9 | 11.071 | 24. | 0. | 107.899 | 10.387 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 7 | 14.5 | 18.414 | 34.9 | 0. | 179.318 | 13.391 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 7 | 1720. | 2501.429 | 6990. | 1320. | 4056614.286 | 2014.104 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 7 | 817. | 859.143 | 1160. | 480. | 53078.81 | 230.388 | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 2 | 10.3 | 10.3 | 12.4 | 8.2 | 8.82 | 2.97 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 2 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 2 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 2 | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1997 - Station BICA0002

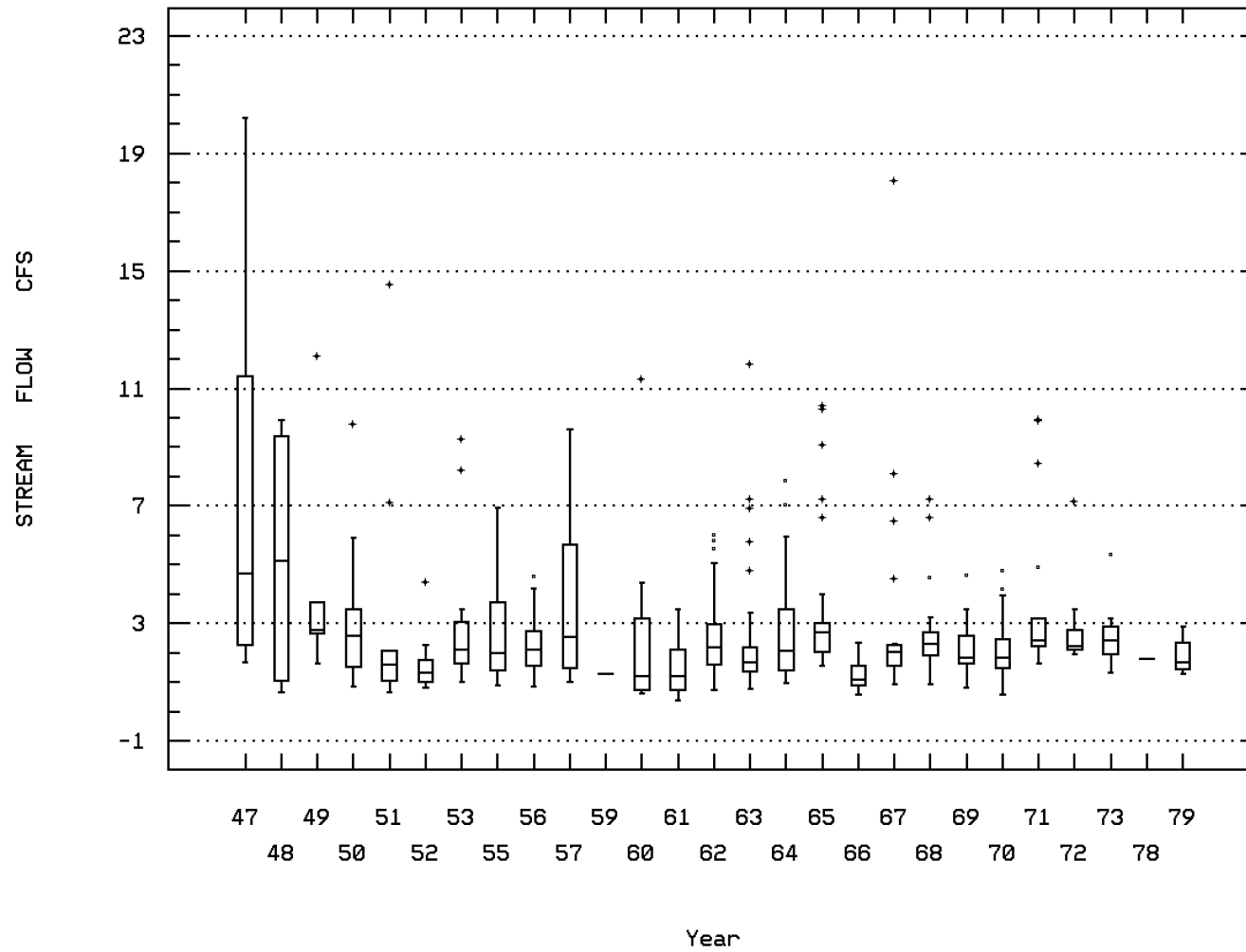
| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 1 | 2910. | 2910. | 2910. | 2910. | 0. | 0. | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 1 | 853. | 853. | 853. | 853. | 0. | 0. | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 1 | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0002 Parameter Code: 00060

FLOW, STREAM, MEAN DAILY

(X 1000)

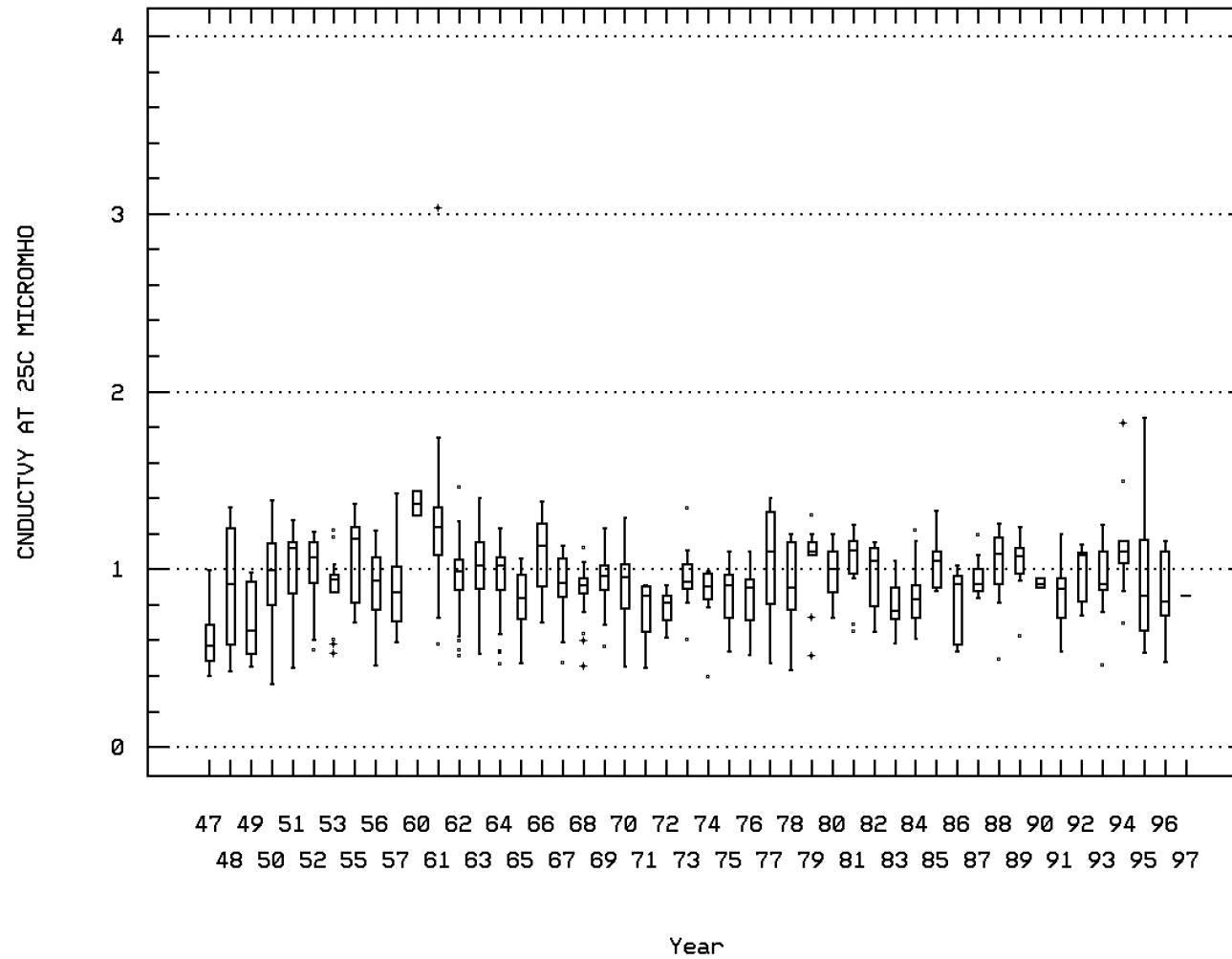


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

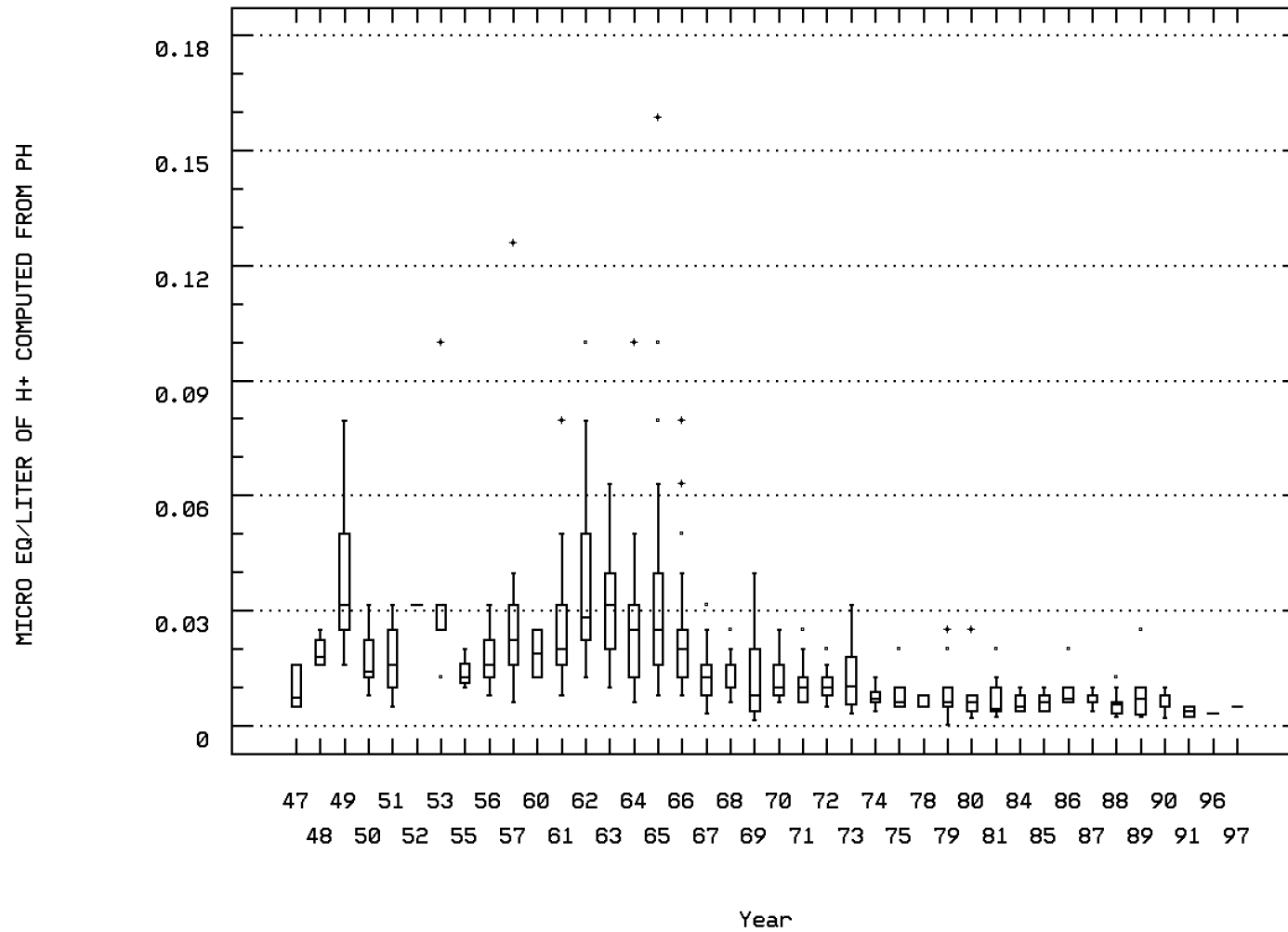
(X 1000)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00400

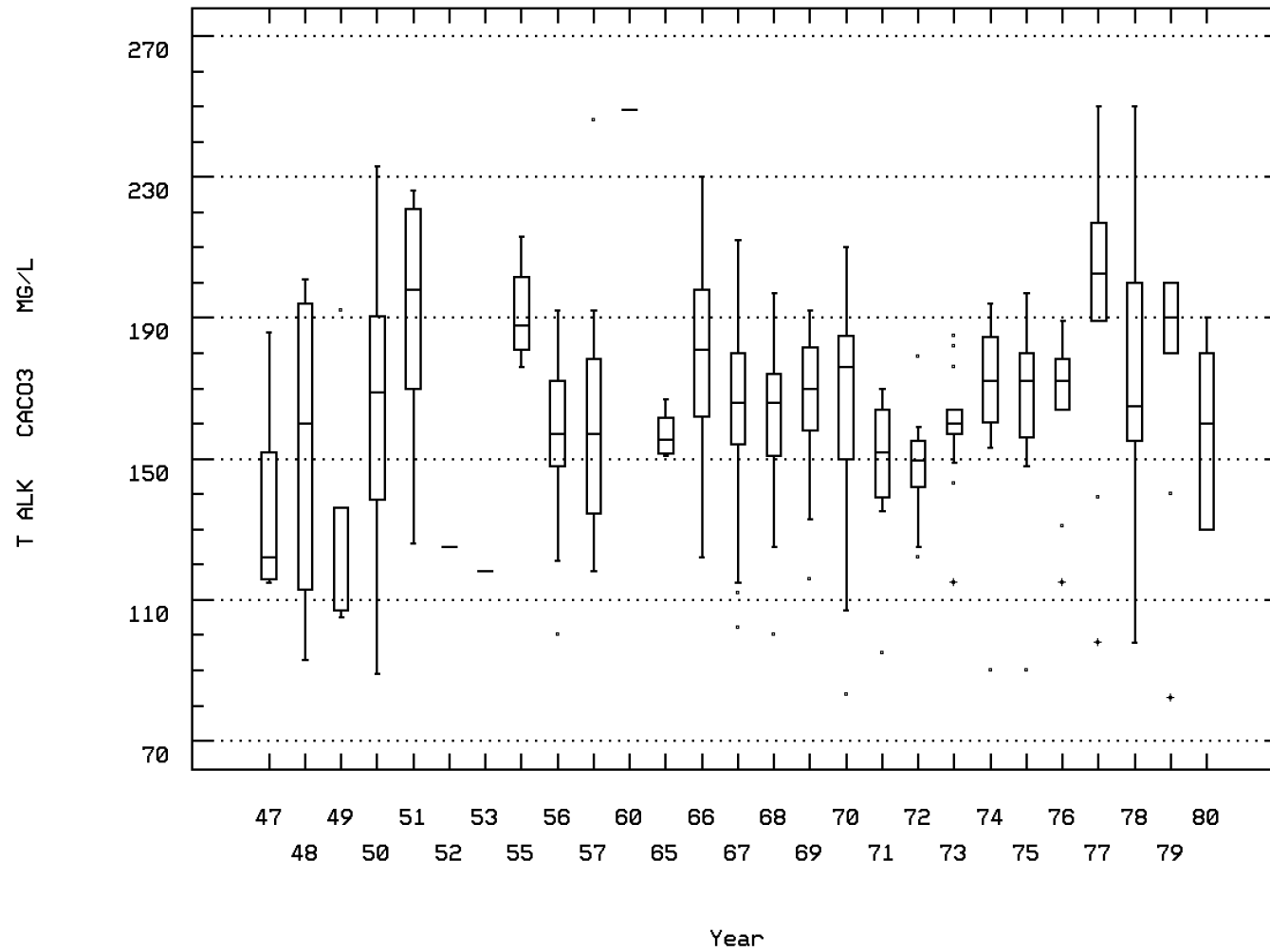
MICRO EQ/LITER OF H+ COMPUTED FROM PH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00410

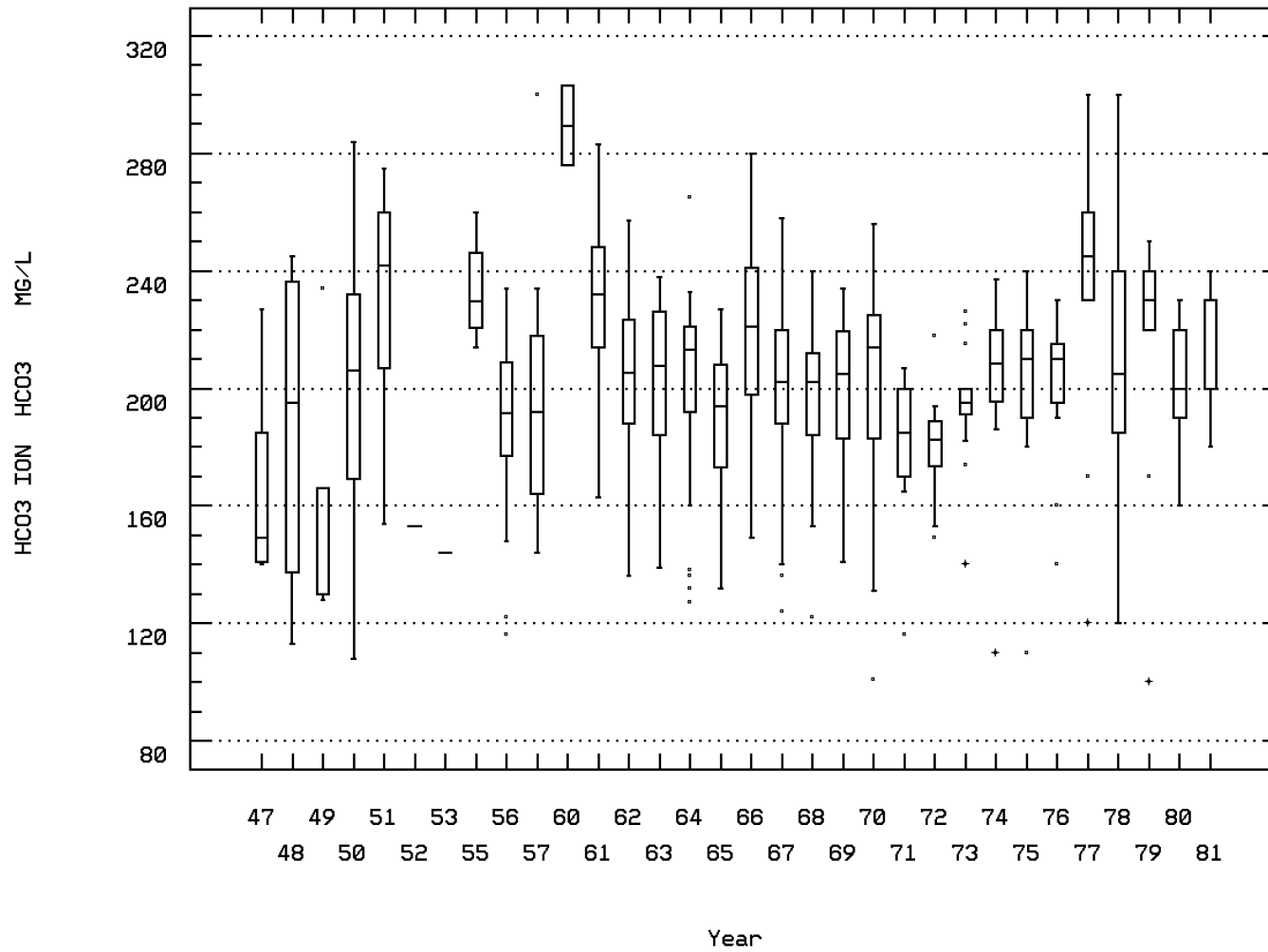
ALKALINITY, TOTAL (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00440

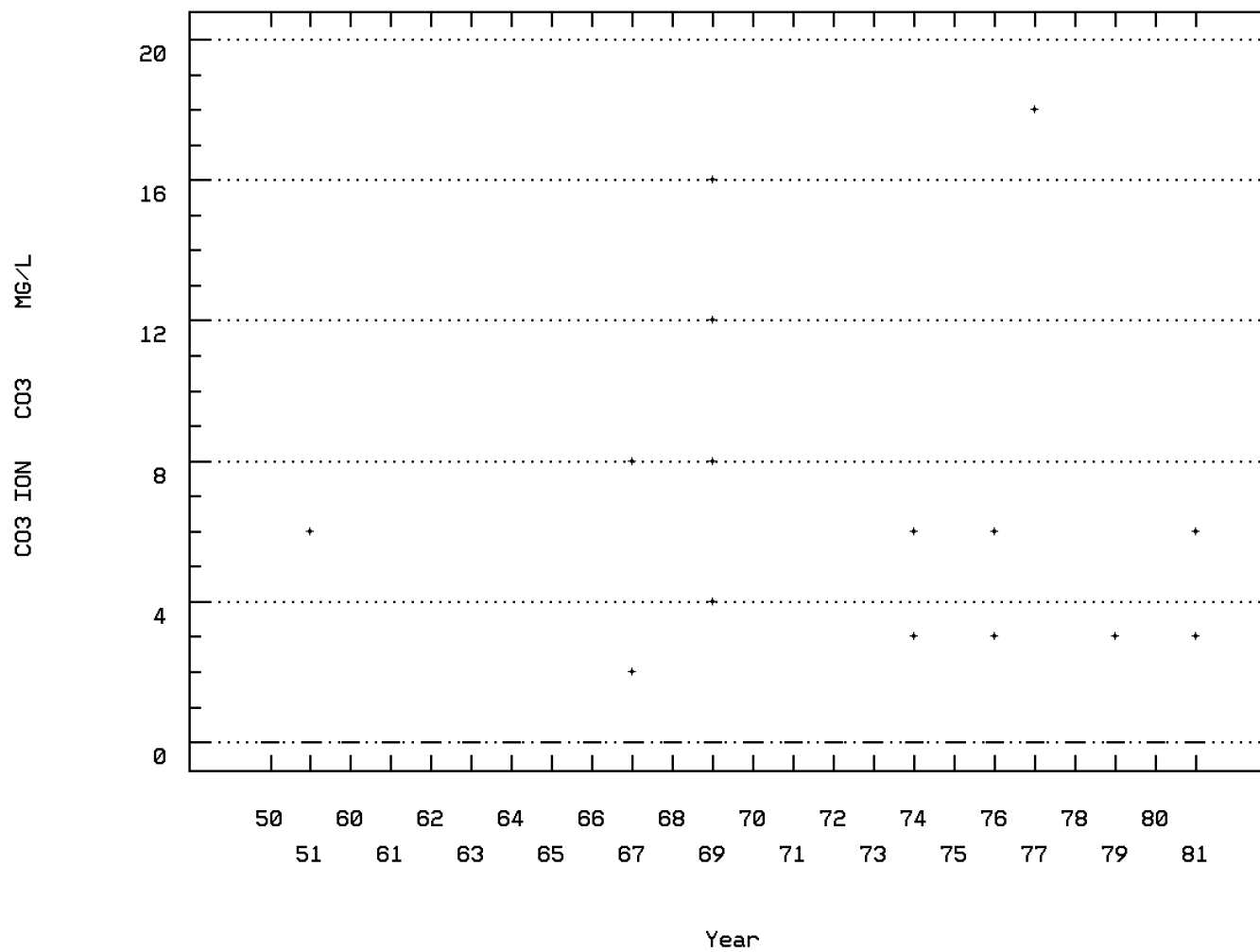
BICARBONATE ION (MG/L AS HCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00445

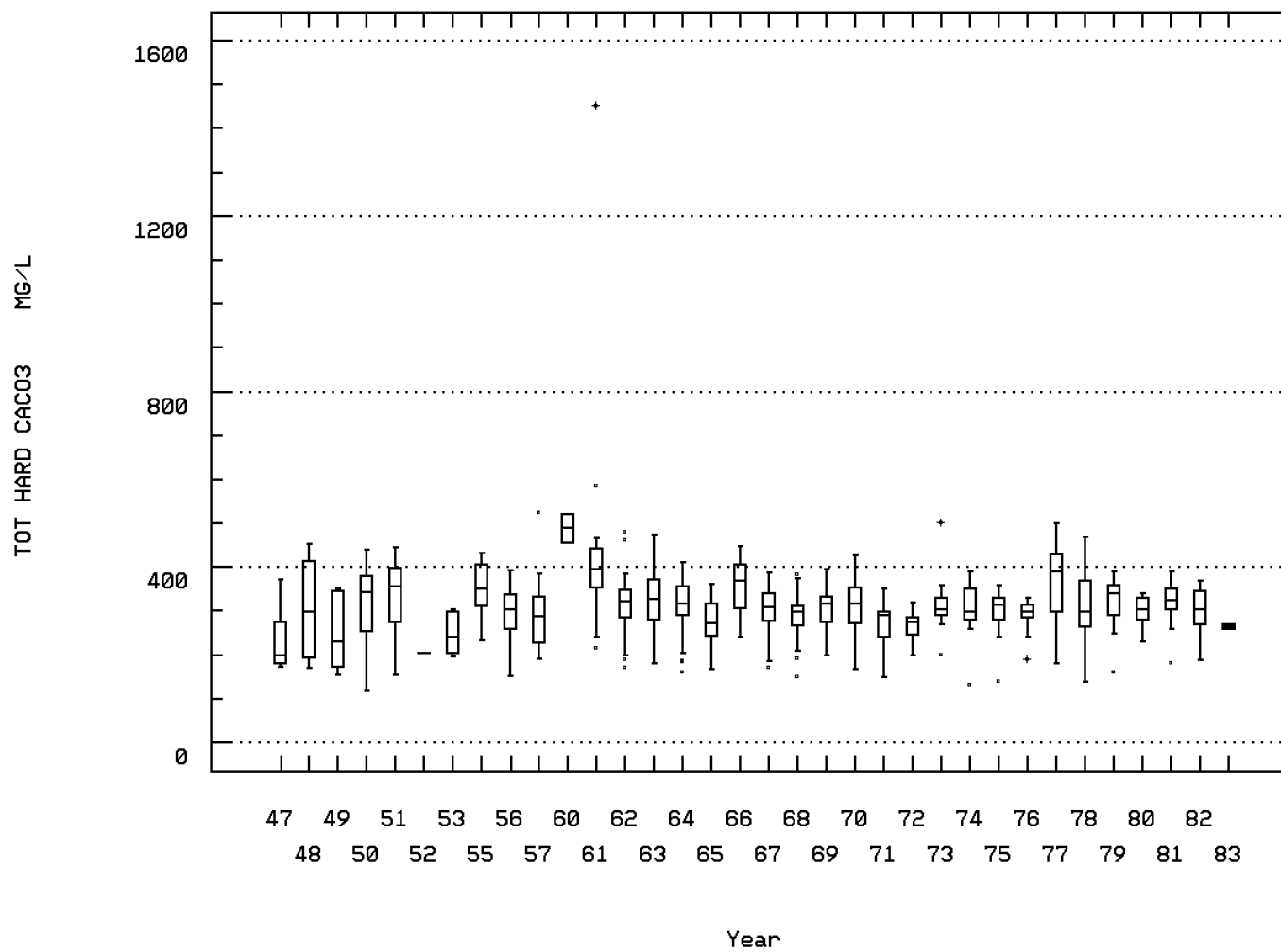
CARBONATE ION (MG/L AS CO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00900

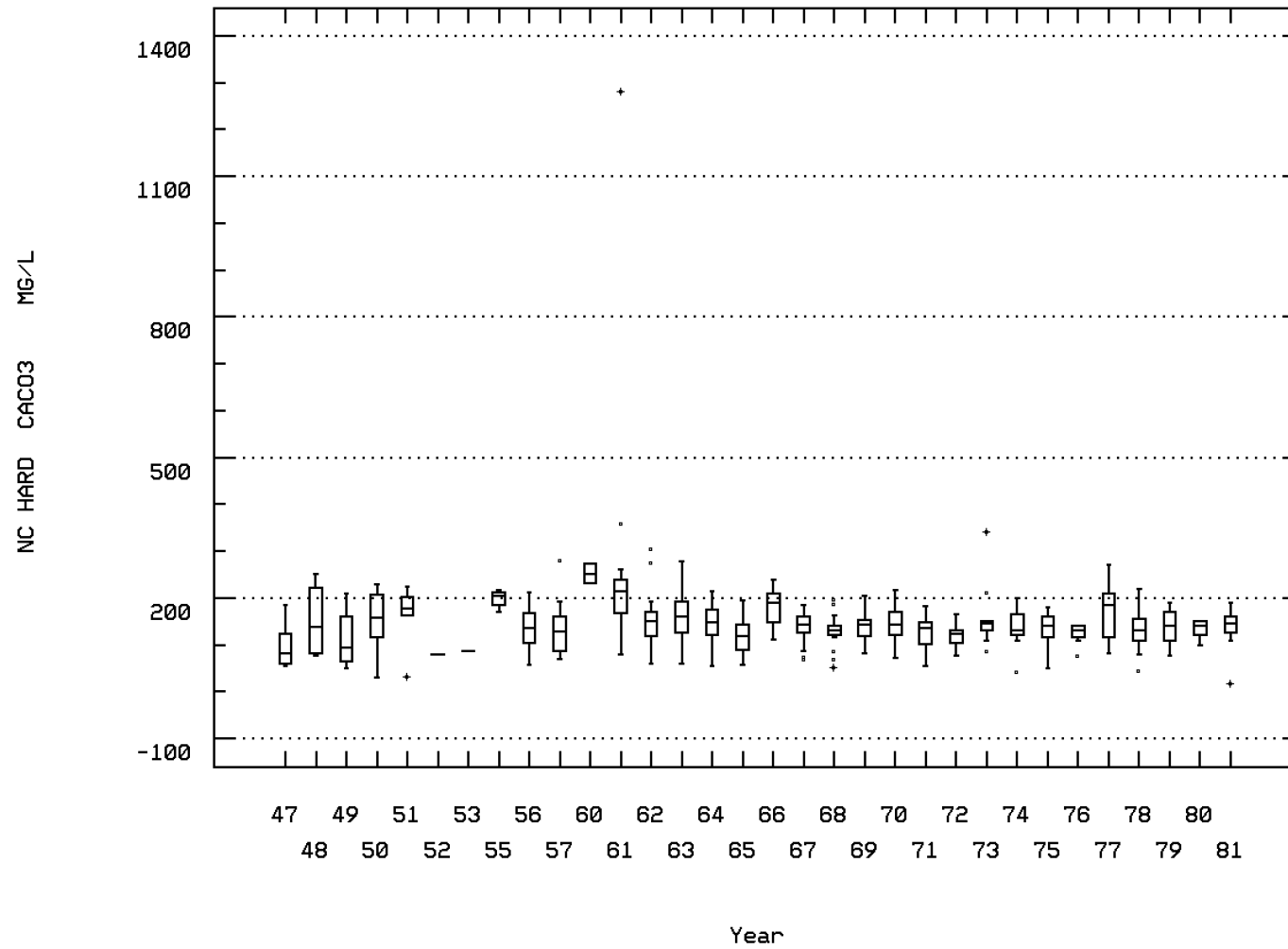
HARDNESS, TOTAL (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00902

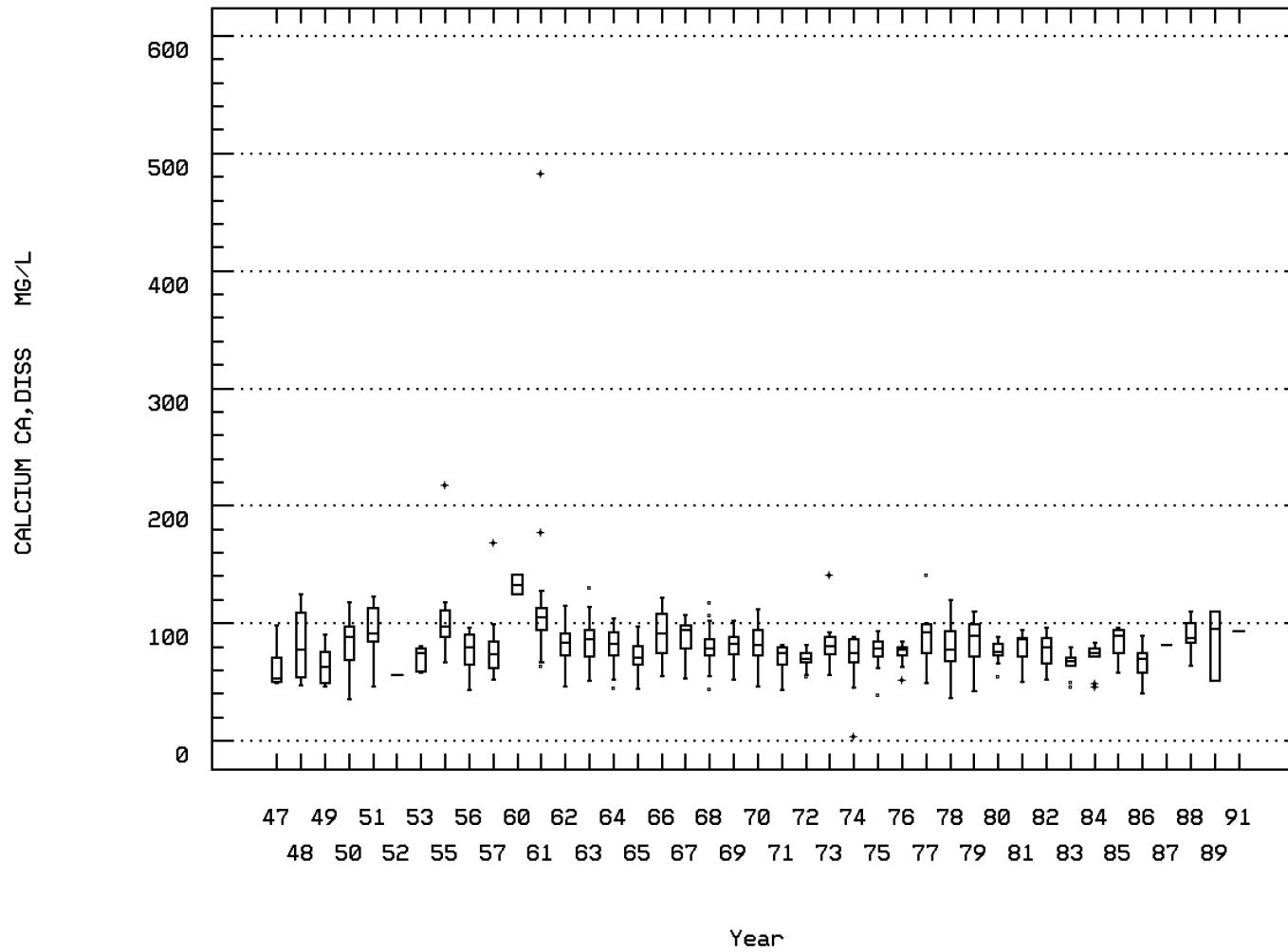
HARDNESS, NON-CARBONATE (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00915

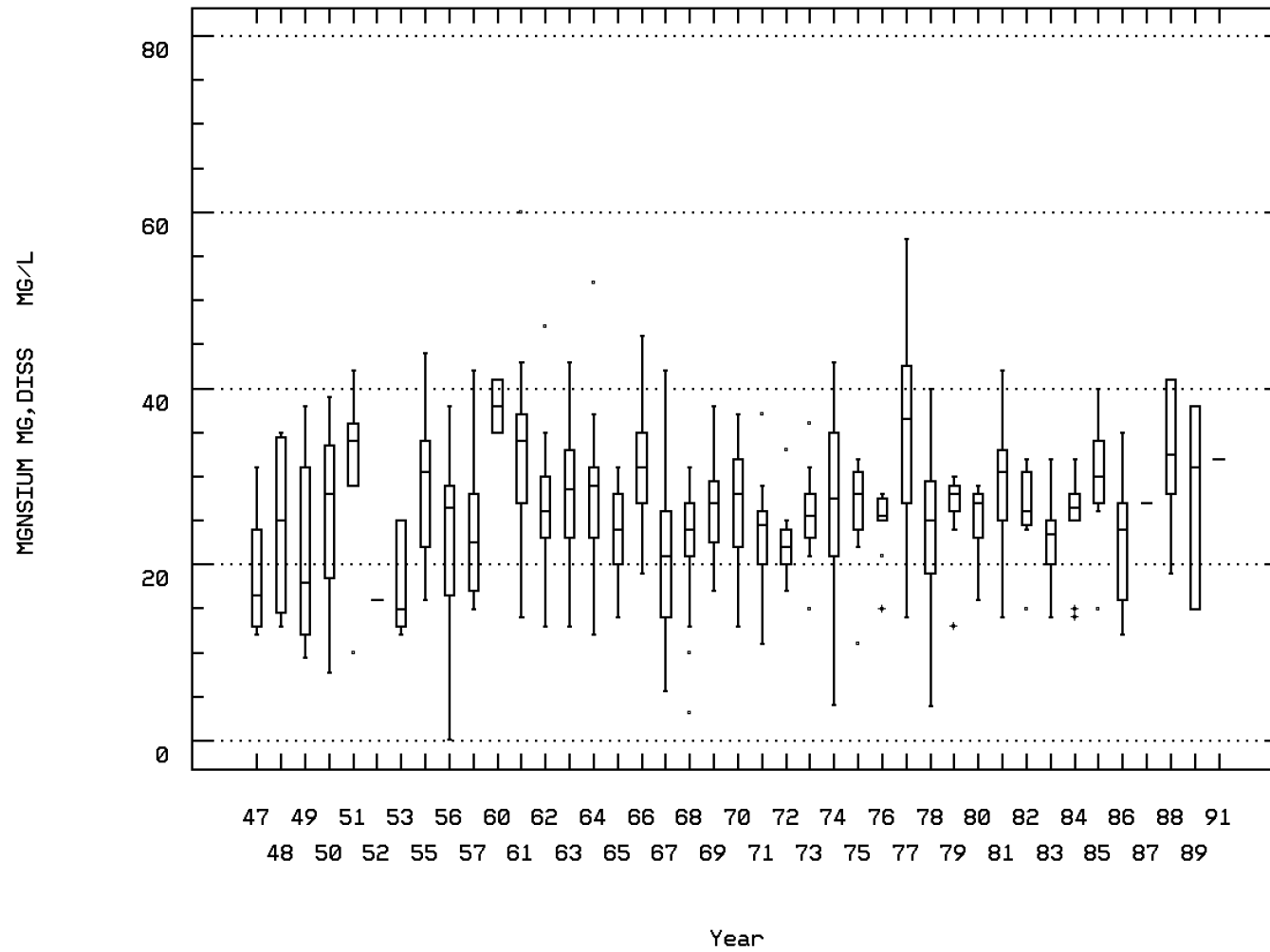
CALCIUM, DISSOLVED (MG/L AS CA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00925

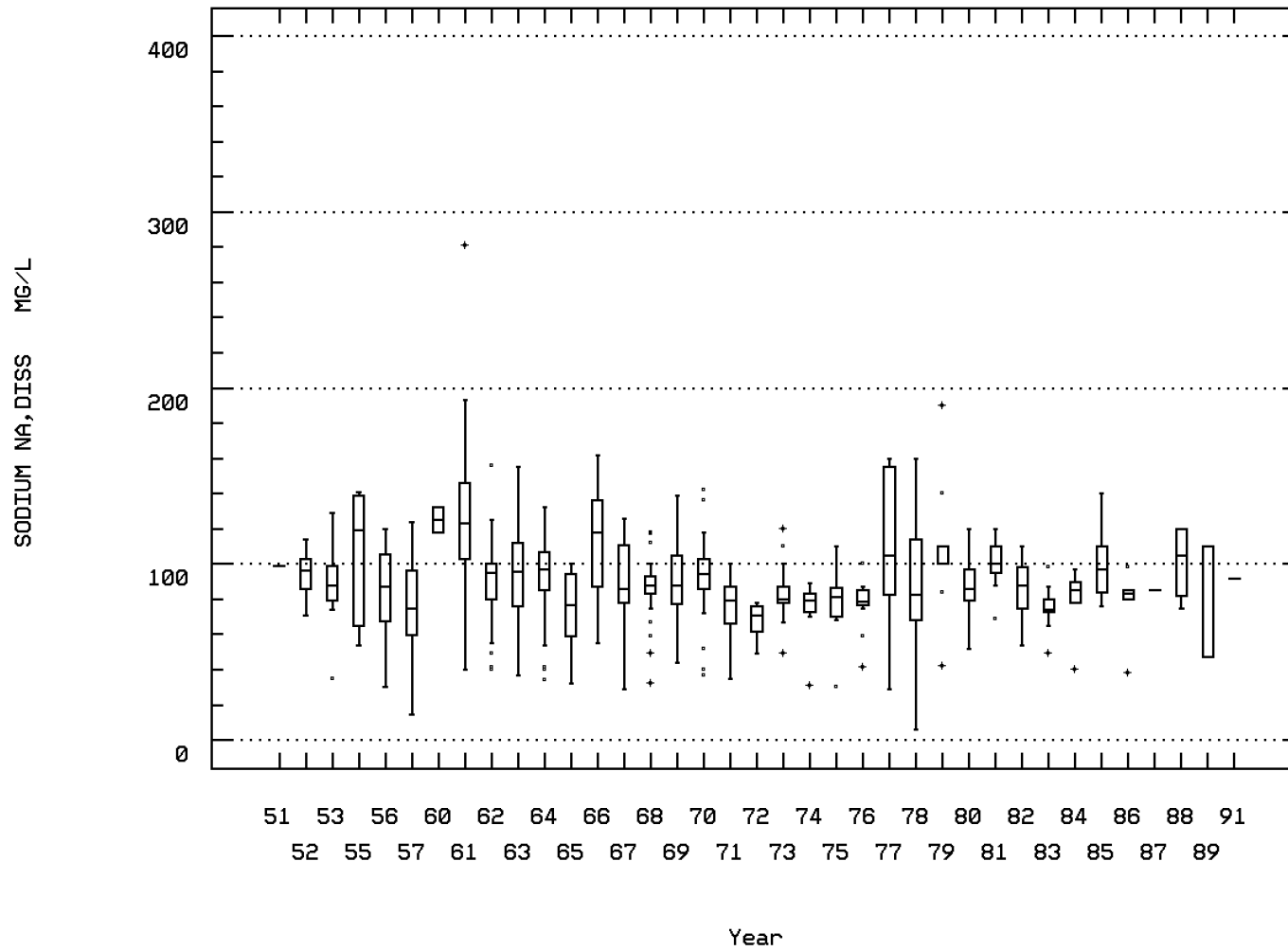
MAGNESIUM, DISSOLVED (MG/L AS MG)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00930

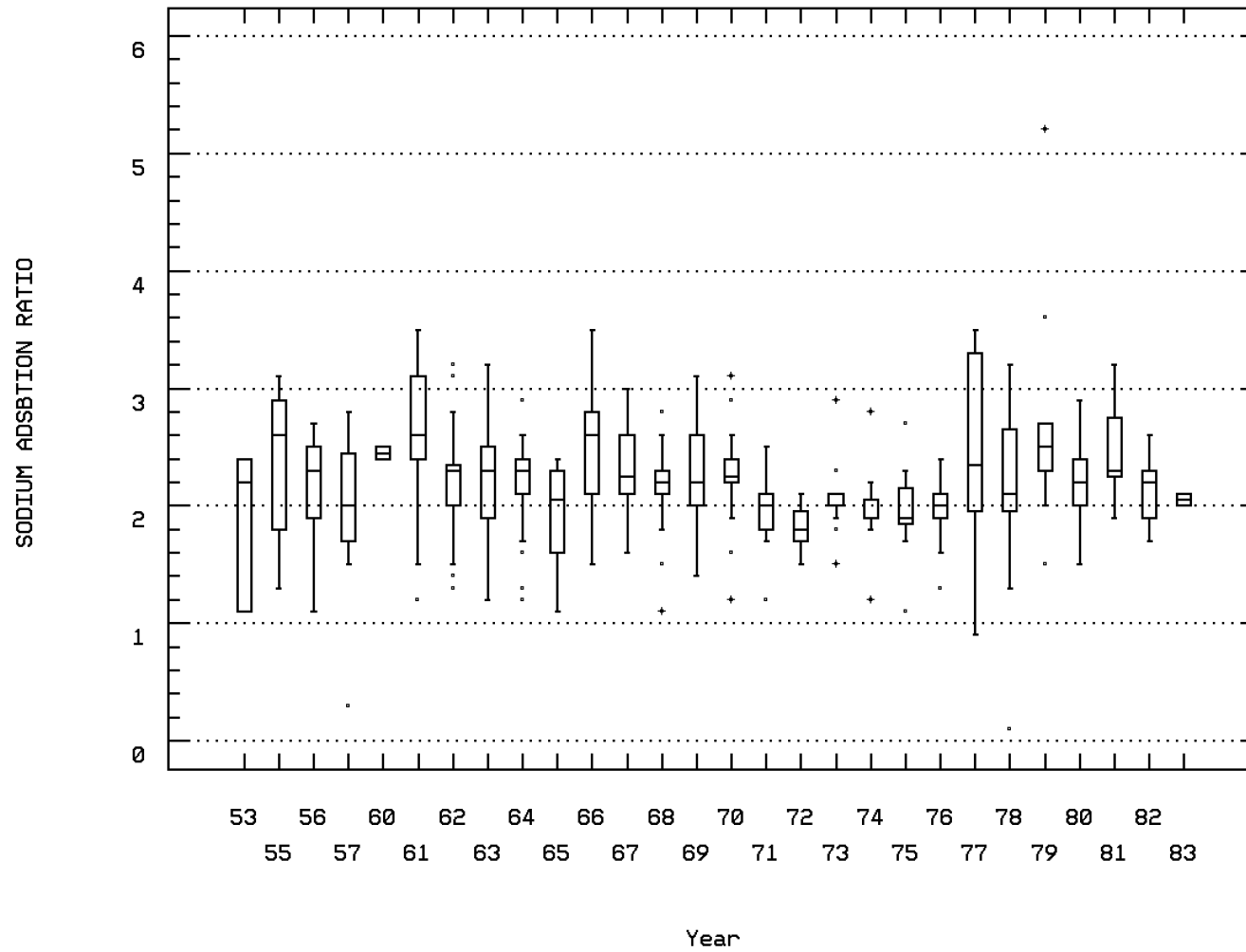
SODIUM, DISSOLVED (MG/L AS NA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00931

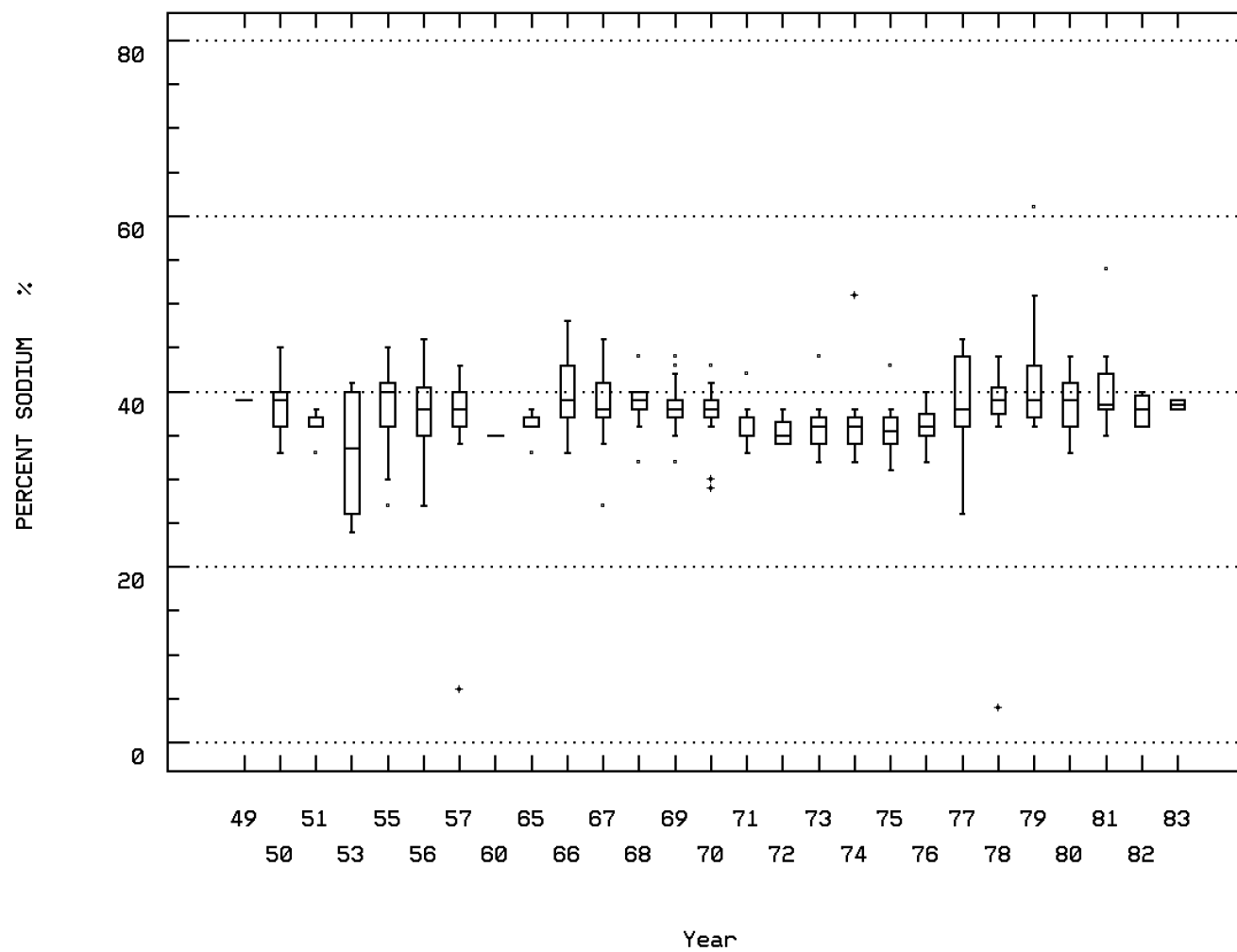
SODIUM ADSORPTION RATIO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00932

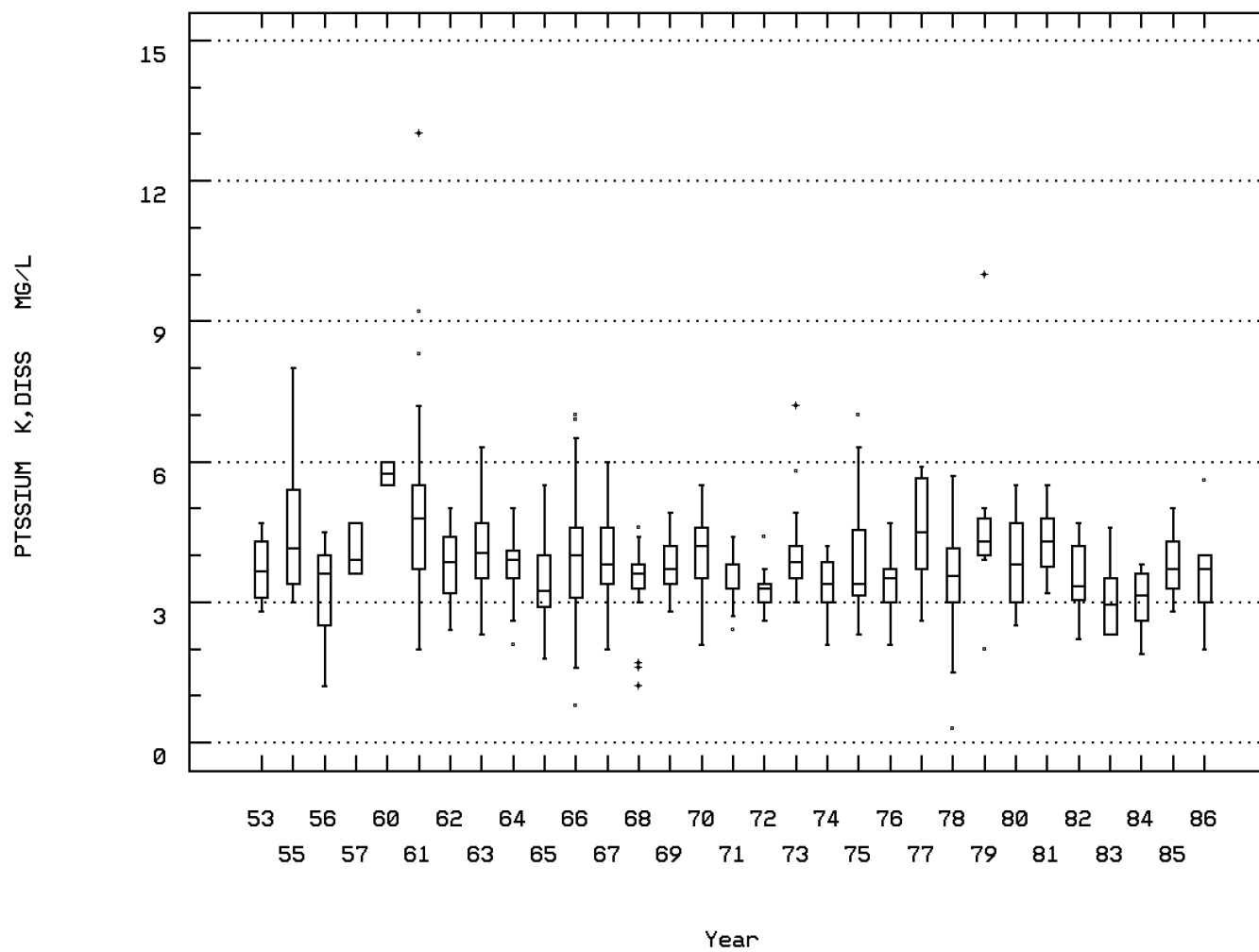
SODIUM, PERCENT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00935

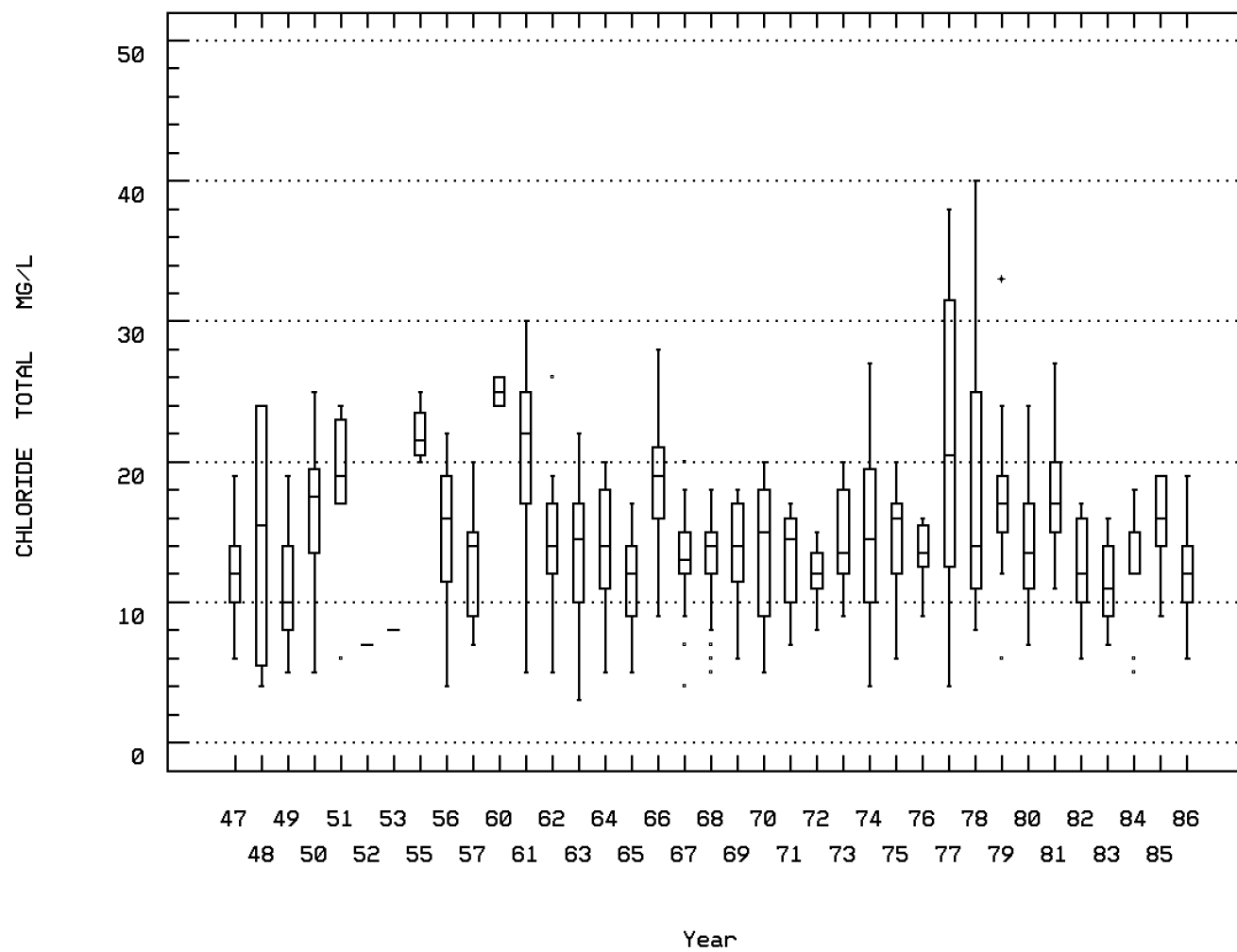
POTASSIUM, DISSOLVED (MG/L AS K)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00940

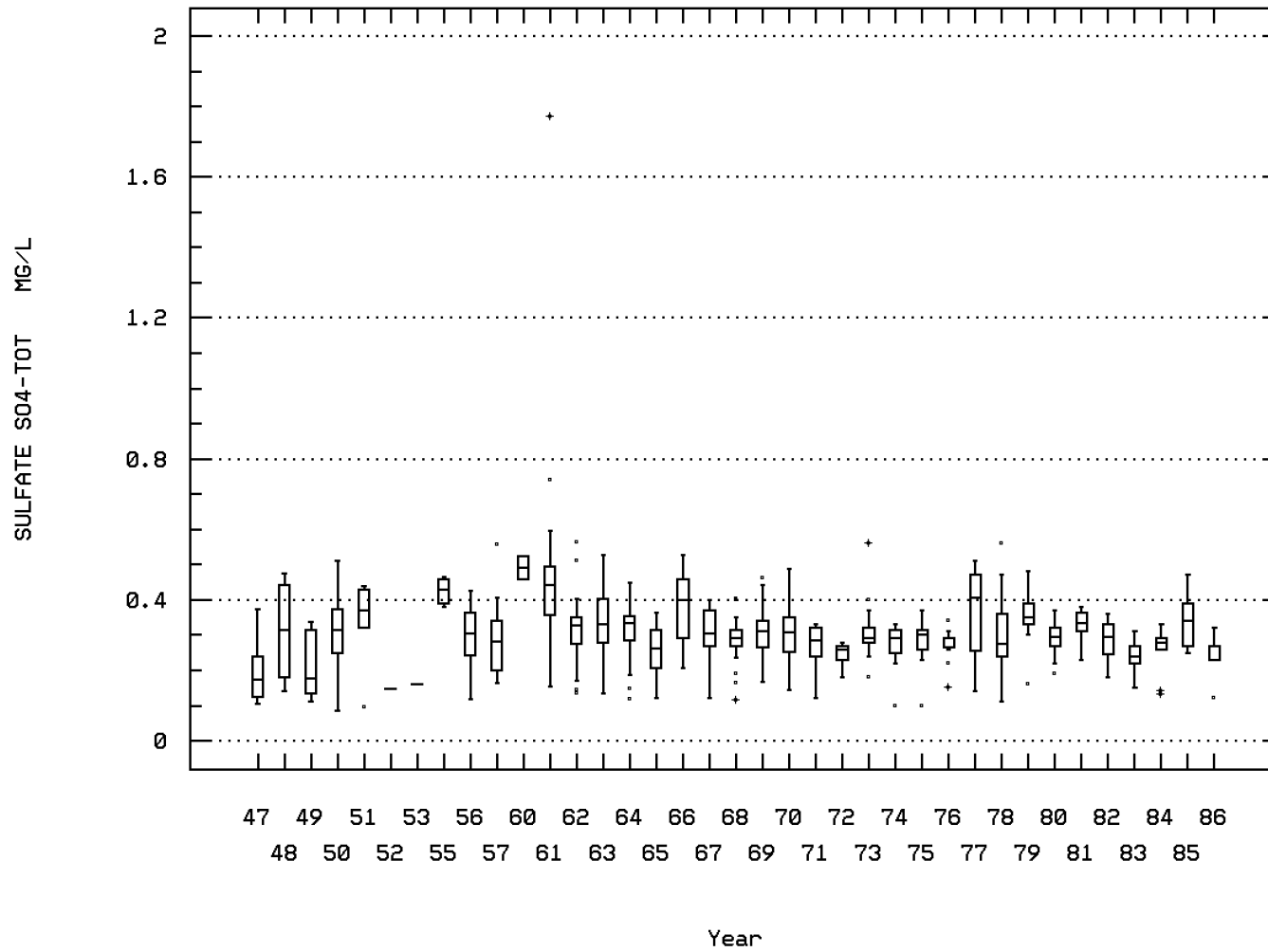
CHLORIDE, TOTAL IN WATER



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00945

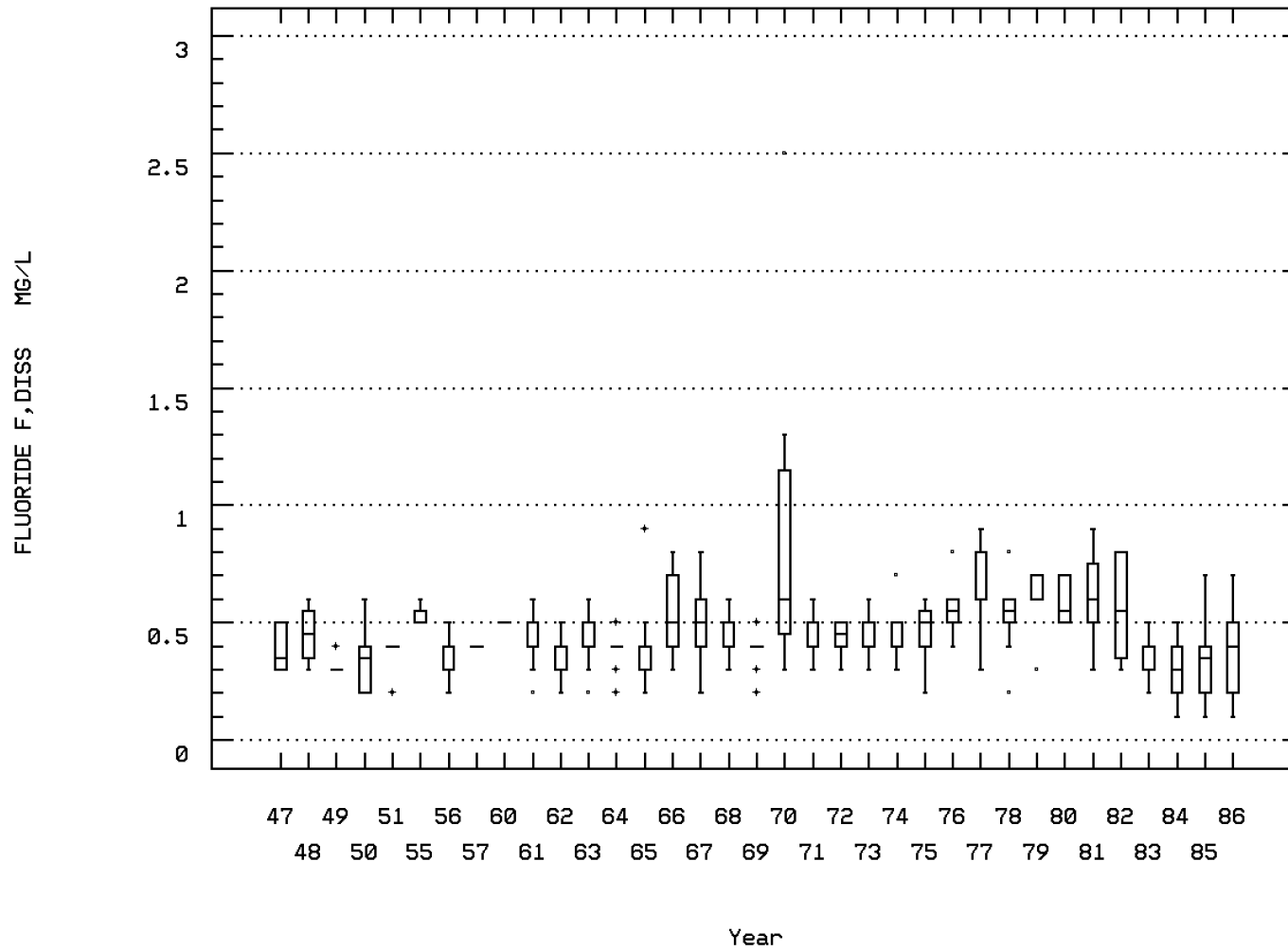
(X 1000) SULFATE, TOTAL (MG/L AS SO4)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00950

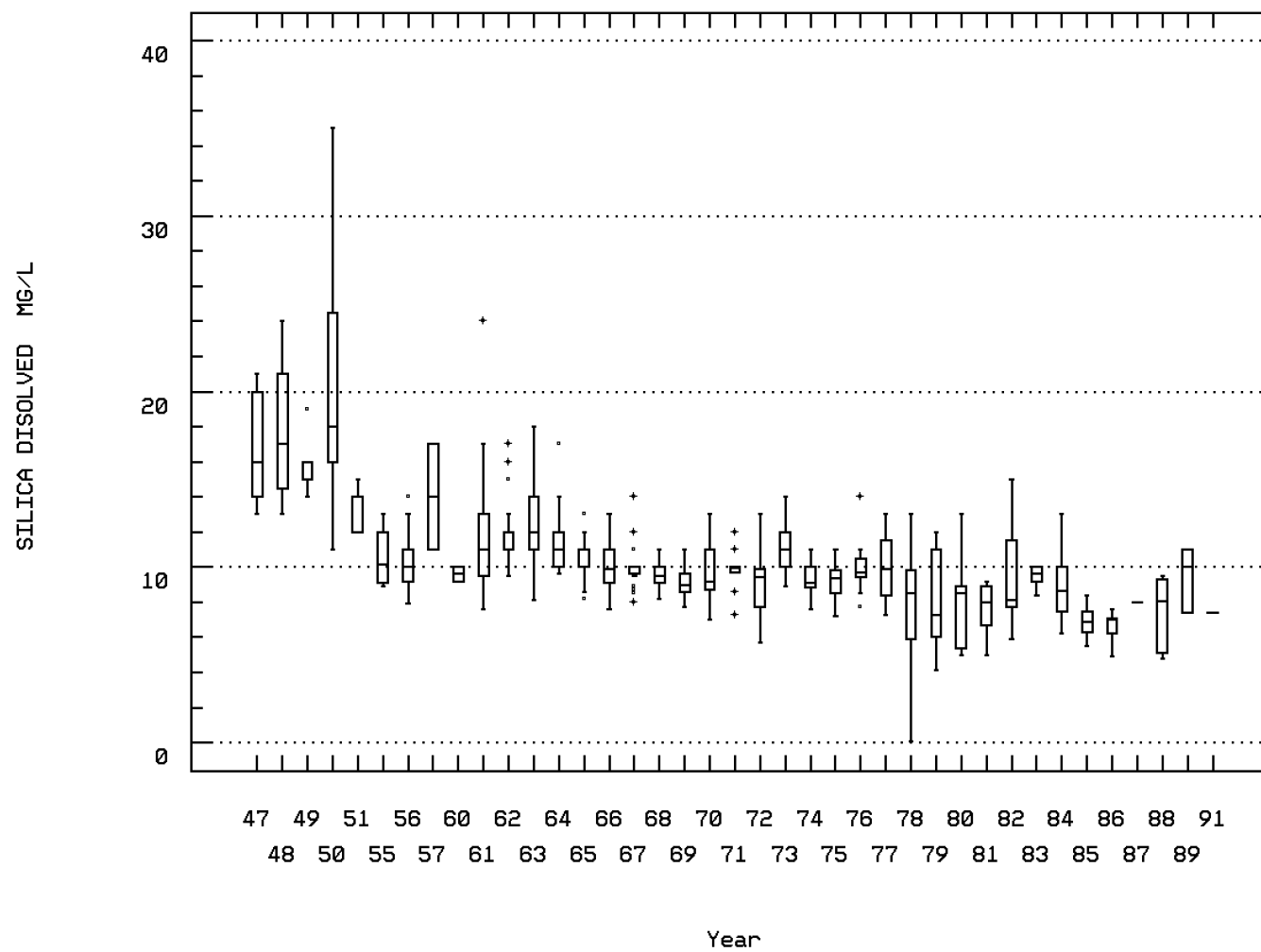
FLUORIDE, DISSOLVED (MG/L AS F)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00955

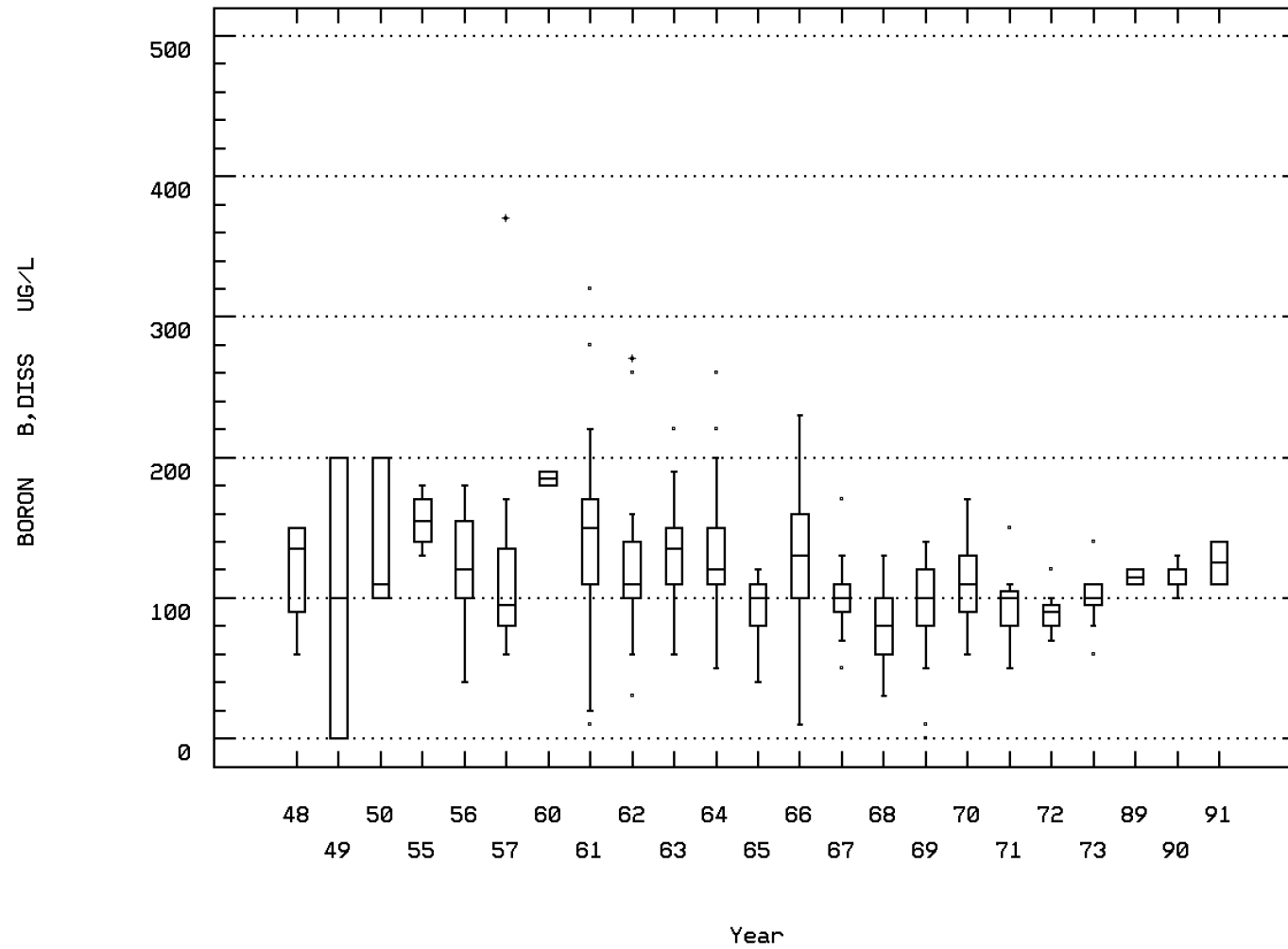
SILICA, DISSOLVED (MG/L AS SI02)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 01020

BORON, DISSOLVED (UG/L AS B)

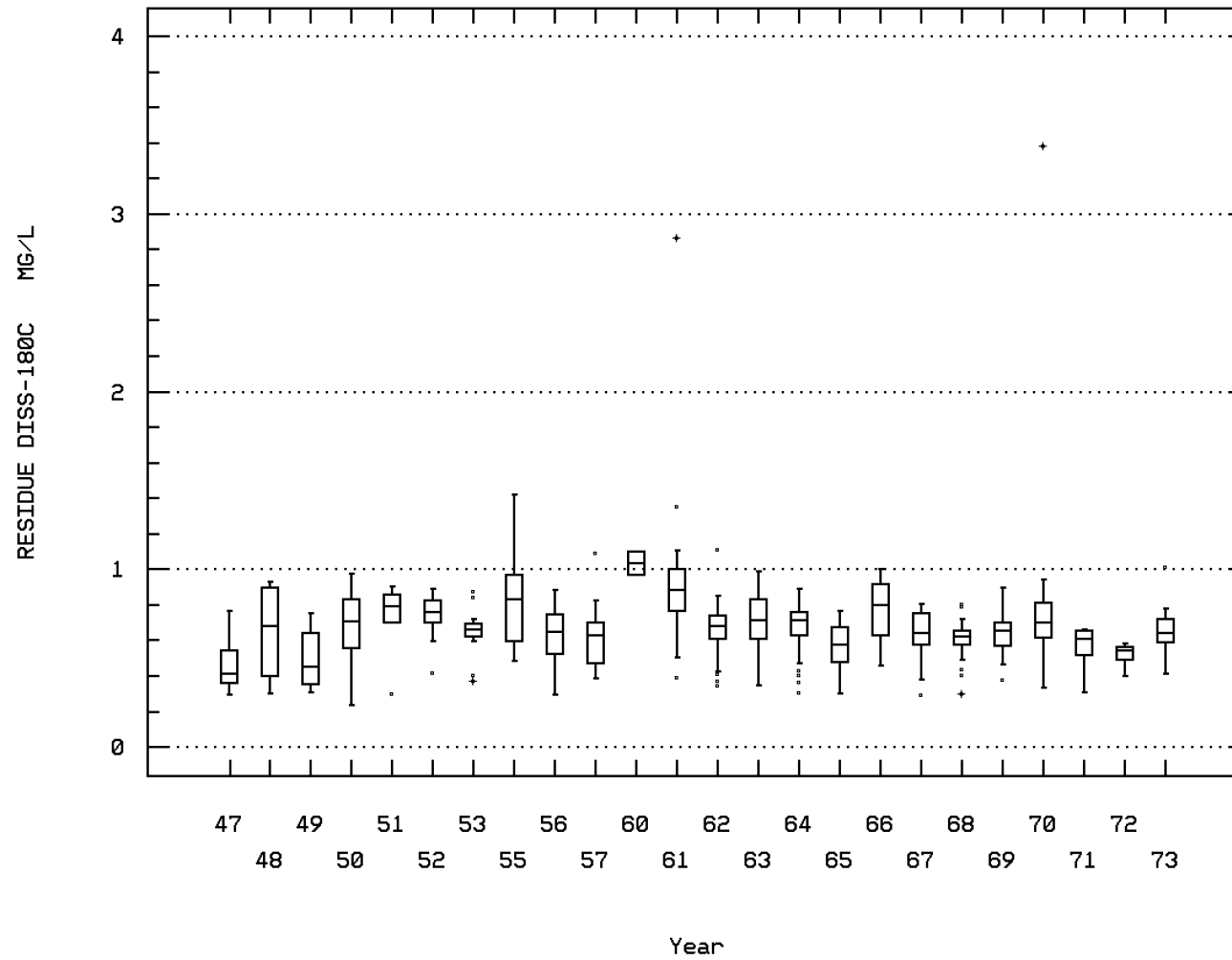


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70300

RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)

(X 1000)

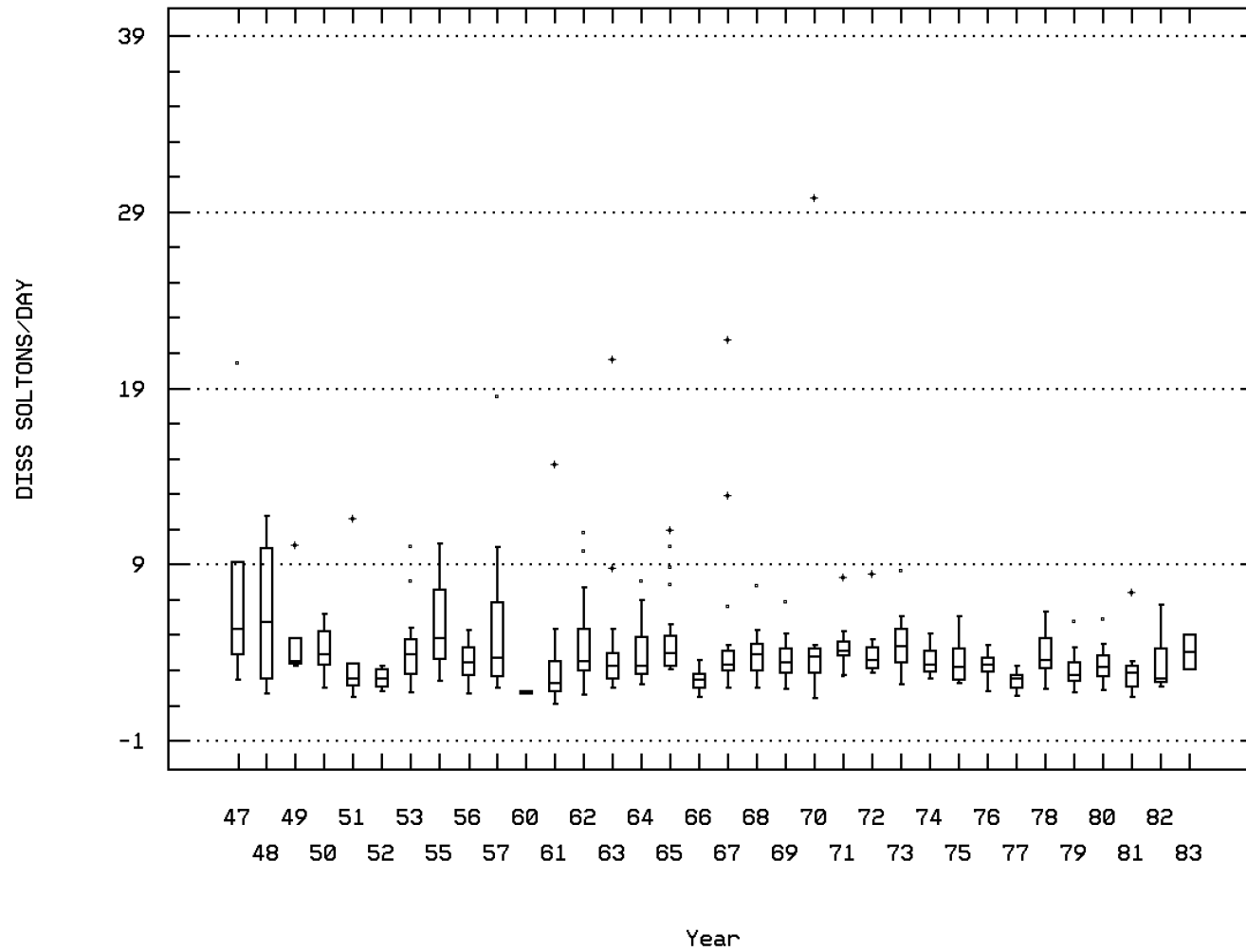


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70302

SOLIDS, DISSOLVED-TONS PER DAY

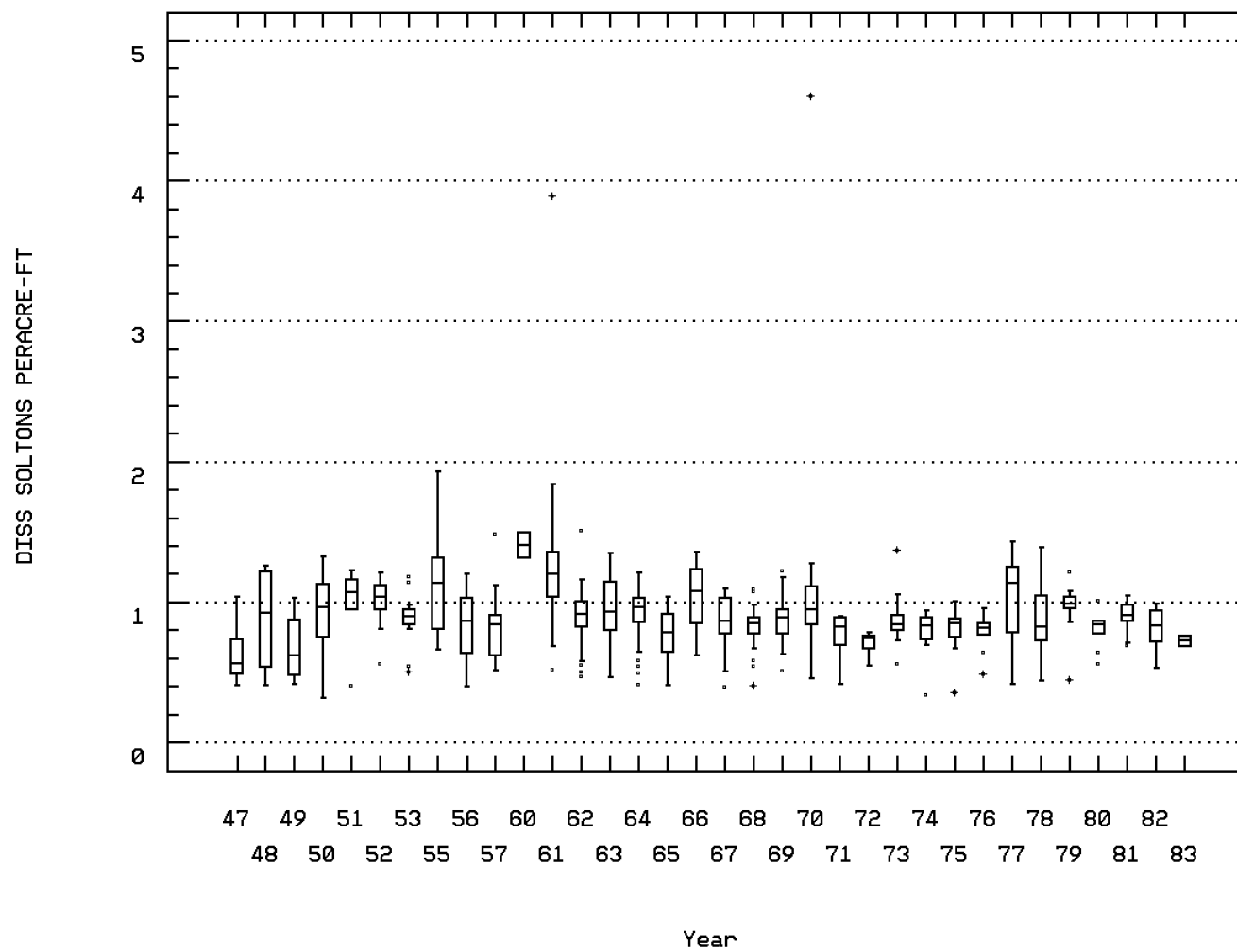
(X 1000)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70303

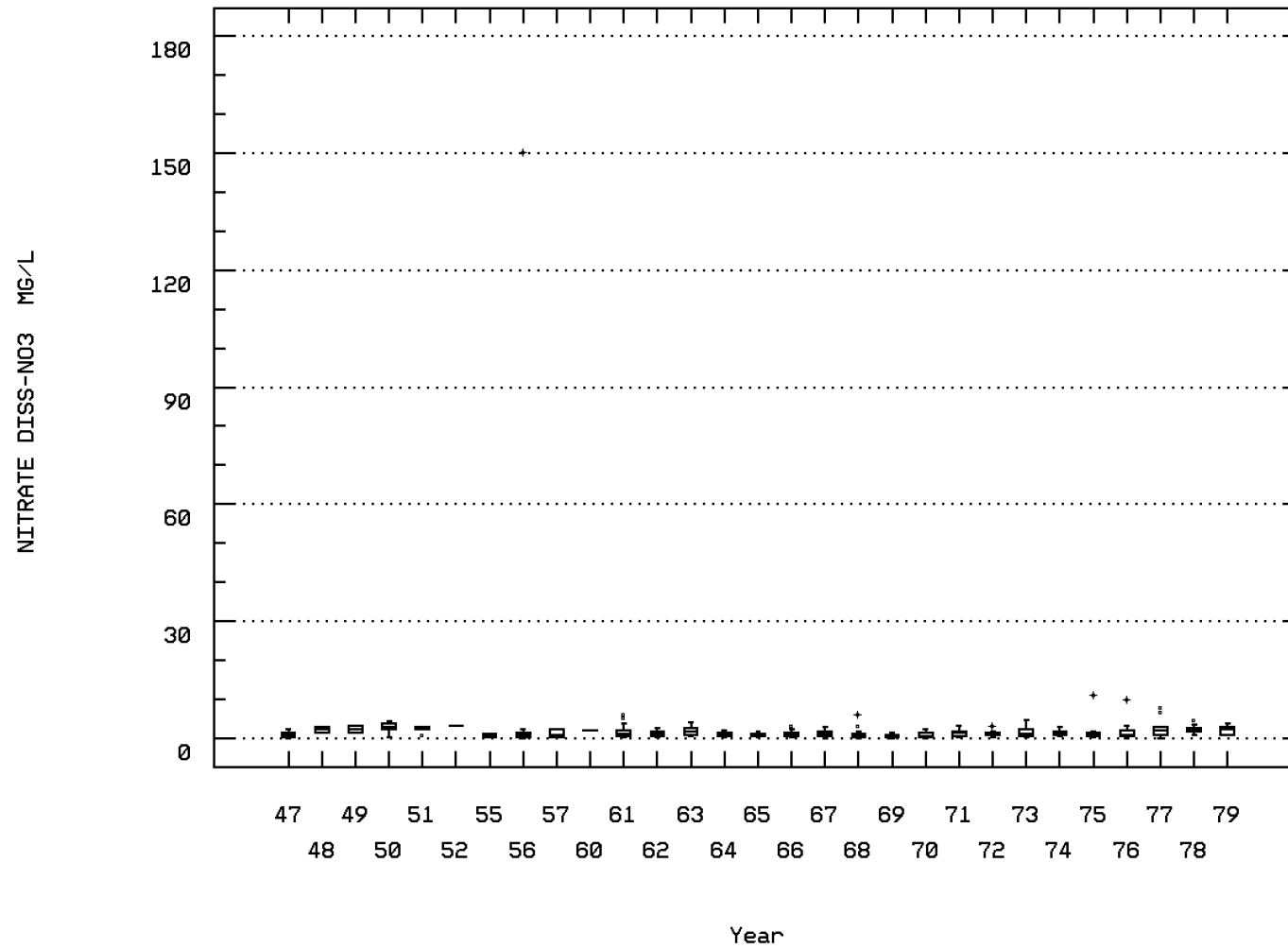
SOLIDS, DISSOLVED-TONS PER ACRE-FT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 71851

NITRATE NITROGEN, DISSOLVED (MG/L AS NO

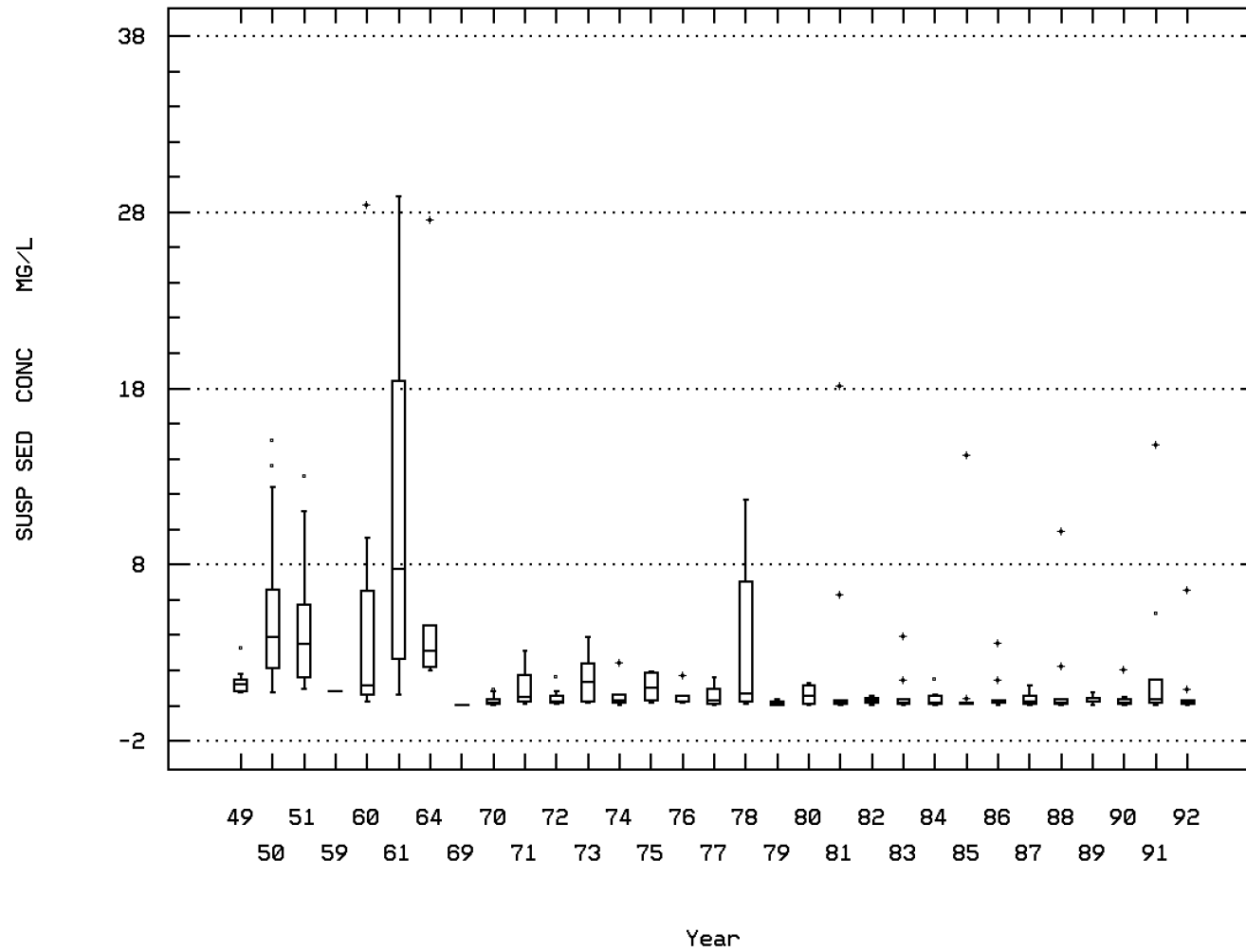


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1

(X 1000)



BIGHORN R AT KANE WYO

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-------|--------|----------|---------|---------|------------|-----------|-------|--------|---------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 261 | 6.5 | 7.675 | 24.5 | 0. | 50.064 | 7.076 | 0. | 0.5 | 13.5 | 19. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 110 | 10.75 | 10.485 | 41. | -18. | 108.366 | 10.41 | 3.55 | 7.375 | 20. | 25. |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 02/16/84-04/14/97 | 20 | 671. | 670.55 | 689. | 644. | 109.839 | 10.48 | 660.2 | 663.25 | 679. | 684.9 |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 290 | 1705. | 1762.945 | 5038. | 475. | 436784.122 | 660.896 | 887.2 | 1263. | 2203.25 | 2690. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 250 | 1695. | 1781.684 | 5130. | 598. | 548690.241 | 740.736 | 900.6 | 1250. | 2150. | 2857. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 51 | 10. | 170.814 | 3900. | 1. | 338370.53 | 581.696 | 1.2 | 4. | 70. | 538. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 94 | 5. | 5. | 18. | 0. | 6.301 | 2.51 | 3. | 3.75 | 6. | 7.5 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 414 | 998.5 | 1019.829 | 1850. | 560. | 28244.975 | 168.062 | 835.5 | 902.75 | 1122.5 | 1235. |
| 00300p | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 81 | 10.6 | 10.544 | 14. | 7.6 | 2.081 | 1.443 | 8.6 | 9.25 | 11.8 | 12.4 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 312 | 7.85 | 7.886 | 9.7 | 7. | 0.117 | 0.342 | 7.5 | 7.6 | 8.1 | 8.3 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 312 | 7.847 | 7.764 | 9.7 | 7. | 0.132 | 0.363 | 7.5 | 7.6 | 8.1 | 8.3 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 312 | 0.014 | 0.017 | 0.1 | 0. | 0. | 0.014 | 0.005 | 0.008 | 0.025 | 0.032 |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 49 | 8.1 | 8.092 | 8.4 | 7.4 | 0.05 | 0.223 | 7.8 | 7.95 | 8.3 | 8.4 |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 49 | 8.1 | 8.029 | 8.4 | 7.4 | 0.054 | 0.231 | 7.8 | 7.95 | 8.3 | 8.4 |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 49 | 0.008 | 0.009 | 0.04 | 0.004 | 0. | 0.006 | 0.004 | 0.005 | 0.011 | 0.016 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 51 | 2.4 | 3.133 | 9.6 | 0.1 | 5.005 | 2.237 | 1.08 | 1.7 | 4. | 7.3 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 201 | 176. | 177.527 | 250. | 116. | 473.35 | 21.757 | 153.2 | 161.5 | 190. | 202. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 295 | 217. | 217.905 | 303. | 141. | 611.855 | 24.736 | 190. | 200. | 230. | 250. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 260 | 0. | 0.158 | 12. | 0. | 1.068 | 1.033 | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/20/80-07/28/89 | 38 | 0.07 | 0.101 | 0.6 | 0.005 | 0.012 | 0.111 | 0.02 | 0.03 | 0.12 | 0.165 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 57 | 0.25 | 0.455 | 2.5 | 0. | 0.24 | 0.489 | 0.09 | 0.18 | 0.54 | 0.924 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/20/80-07/28/89 | 39 | 0.62 | 0.786 | 3.4 | 0.2 | 0.295 | 0.543 | 0.4 | 0.55 | 0.93 | 1.1 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/20/80-07/28/89 | 38 | 0.27 | 0.315 | 0.8 | 0.1 | 0.03 | 0.173 | 0.129 | 0.2 | 0.4 | 0.6 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 48 | 0.3 | 0.441 | 2.4 | 0. | 0.213 | 0.461 | 0.2 | 0.2 | 0.475 | 0.72 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 104 | 0.065 | 0.142 | 3.4 | 0. | 0.147 | 0.384 | 0.005 | 0.02 | 0.11 | 0.28 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 306 | 330. | 338.533 | 521. | 210. | 2748.328 | 52.425 | 280. | 300. | 368. | 411.9 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 294 | 151. | 160.163 | 303. | 84. | 1359.905 | 36.877 | 120. | 133. | 181.25 | 212.5 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 335 | 85. | 86.896 | 141. | 3. | 234.082 | 15.3 | 71. | 77. | 94. | 108.8 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 335 | 29. | 29.118 | 57. | 0.2 | 40.72 | 6.381 | 23. | 25. | 32. | 37. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 330 | 94. | 97.984 | 190. | 5.8 | 466.048 | 21.588 | 76.1 | 84. | 110. | 124. |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 285 | 2.3 | 2.331 | 5.2 | 0.1 | 0.173 | 0.415 | 1.9 | 2.1 | 2.5 | 2.8 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 215 | 38. | 38.279 | 61. | 4. | 16.725 | 4.09 | 35. | 36. | 40. | 42. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 296 | 3.9 | 4.044 | 10. | 0.8 | 0.887 | 0.942 | 3.1 | 3.5 | 4.4 | 5. |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 325 | 16. | 16.575 | 40. | 9. | 19.943 | 4.466 | 12. | 14. | 19. | 22. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 325 | 321. | 337.329 | 563. | 196. | 4965.999 | 70.47 | 260. | 290. | 373.5 | 445.2 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 312 | 0.5 | 0.496 | 2.5 | 0.1 | 0.039 | 0.197 | 0.3 | 0.4 | 0.6 | 0.7 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 321 | 10. | 10.417 | 35. | 2.2 | 9.55 | 3.09 | 7.6 | 9. | 11. | 13. |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 10/01/70-03/14/91 | 18 | 1. | 4.444 | 60. | 0. | 193.614 | 13.915 | 0. | 0.5 | 1.25 | 10.5 |
| 01005 | BARIUM, DISSOLVED (UG/L AS Ba) | 10/01/70-03/14/91 | 16 | 57. | 56.563 | 68. | 39. | 54.263 | 7.366 | 46.7 | 52. | 61.5 | 66.6 |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/01/70-03/14/91 | 15 ## | 0.25 | 0.383 | 1.5 | 0. | 0.186 | 0.432 | 0. | 0.25 | 0.25 | 1.2 |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 223 | 110. | 120.538 | 260. | 0. | 1395.205 | 37.352 | 80. | 100. | 140. | 170. |
| 01025 | CADMIUM, DISSOLVED (UG/L AS Cd) | 10/01/70-03/14/91 | 18 | 0.5 | 0.889 | 3. | 0. | 0.81 | 0.9 | 0. | 0.5 | 1. | 3. |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/01/70-03/14/91 | 20 ## | 2.5 | 2.6 | 7.5 | 0.5 | 2.779 | 1.667 | 0.55 | 2. | 2.5 | 5.8 |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/01/70-03/14/91 | 12 ## | 1.5 | 2.042 | 4.5 | 1.5 | 1.157 | 1.076 | 1.5 | 1.5 | 2.25 | 4.35 |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/01/70-03/14/91 | 20 ## | 5. | 4.35 | 5. | 1. | 1.082 | 1.04 | 3. | 4. | 5. | 5. |
| 01045 | IRON, TOTAL (UG/L AS Fe) | 03/26/47-09/15/71 | 50 | 20. | 32.94 | 220. | 0. | 2417.894 | 49.172 | 0. | 0. | 40. | 117. |
| 01046 | IRON, DISSOLVED (UG/L AS Fe) | 01/26/71-03/14/91 | 30 | 57.5 | 78.6 | 280. | 0. | 5442.386 | 73.773 | 8.1 | 18.25 | 112.5 | 209. |
| 01049 | LEAD, DISSOLVED (UG/L AS Pb) | 10/01/70-03/14/91 | 20 ## | 5. | 3.8 | 7.5 | 0.5 | 4.379 | 2.093 | 0.55 | 1.25 | 5. | 5.9 |
| 01056 | MANGANESE, DISSOLVED (UG/L AS Mn) | 10/01/70-03/14/91 | 18 | 10. | 13.167 | 30. | 2. | 75.324 | 8.679 | 2.9 | 6. | 18.5 | 29.1 |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS Mo) | 10/01/70-08/30/89 | 13 ## | 5. | 3.808 | 5. | 0. | 3.314 | 1.82 | 0.4 | 2.25 | 5. | 5. |
| 01065 | NICKEL, DISSOLVED (UG/L AS Ni) | 10/01/70-08/30/89 | 13 ## | 5. | 5.5 | 12. | 1. | 9.083 | 3.014 | 1. | 5. | 6.25 | 11.2 |
| 01075 | SILVER, DISSOLVED (UG/L AS Ag) | 10/01/70-03/14/91 | 18 ## | 0.5 | 0.736 | 3. | 0. | 0.489 | 0.699 | 0.225 | 0.5 | 0.625 | 2.1 |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS Sr) | 10/01/70-03/14/91 | 12 | 960. | 979.167 | 1200. | 720. | 23790.152 | 154.241 | 753. | 865. | 1150. | 1200. |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/01/70-08/30/89 | 11 ## | 3. | 3.636 | 7.5 | 2.5 | 2.505 | 1.583 | 2.6 | 3. | 3. | 7.2 |
| 01090 | ZINC, DISSOLVED (UG/L AS Zn) | 10/01/70-03/14/91 | 17 | 19. | 24.529 | 130. | 4. | 852.765 | 29.202 | 6.4 | 7.5 | 30. | 58. |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS Al) | 10/01/70-03/14/91 | 9 | 20. | 26.222 | 74. | 10. | 351.444 | 18.747 | 10. | 20. | 26. | 74. |
| 01130 | LITHIUM, DISSOLVED (UG/L AS Li) | 10/01/70-03/14/91 | 12 | 47.5 | 47.917 | 72. | 29. | 153.72 | 12.398 | 31.1 | 37.25 | 53.5 | 70.5 |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 58 | 120. | 167.422 | 730. | 0. | 26571.805 | 163.009 | 21.4 | 53.5 | 230. | 463. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 58 | 2.079 | 1.95 | 2.863 | -0.301 | 0.417 | 0.646 | 1.329 | 1.727 | 2.362 | 2.666 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|------------------|----------|---------|----------|---------------|-----------|----------|--------|--------|
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | | | GEOMETRIC MEAN = | | | | | | | | |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0.002 | 0.01 | 0. | 0.004 | 0. | 0. | 0. | 0.01 |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 9 | 0. | 0.018 | 0.11 | 0. | 0.001 | 0.036 | 0. | 0.02 | 0.11 |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE (UG/L) | 06/20/84-08/31/92 | 14 | 0.01 | 0.013 | 0.03 | 0.005 | 0. | 0.007 | 0.005 | 0.02 | 0.025 |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 24 | 0.03 | 0.032 | 0.08 | 0. | 0.001 | 0.022 | 0.005 | 0.04 | 0.075 |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 24 ## | 0.005 | 0.004 | 0.01 | 0. | 0. | 0.003 | 0. | 0.005 | 0.008 |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 24 ## | 0.005 | 0.003 | 0.005 | 0. | 0. | 0.003 | 0. | 0.005 | 0.005 |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 245 | 710. | 727.727 | 1110. | 454. | 15417.642 | 124.168 | 583.2 | 638. | 906.8 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 138 | 633. | 658.232 | 1050. | 480. | 10895.449 | 104.381 | 557.2 | 592. | 802.7 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 316 | 3175.01 | 3317.124 | 9750. | 1300.01 | 1063789.093 | 1031.402 | 2107.003 | 2582.5 | 4546. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 317 | 0.94 | 0.973 | 1.51 | 0.62 | 0.029 | 0.169 | 0.78 | 0.85 | 1.21 |
| 70331p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 61 | 72. | 68.525 | 99. | 20. | 477.987 | 21.863 | 36.4 | 48.5 | 96.6 |
| 70332p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 48 | 79.5 | 75.896 | 100. | 38. | 320.563 | 17.904 | 49.4 | 62.75 | 98.9 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 45 | 97. | 93.933 | 100. | 70. | 50.2 | 7.085 | 82.6 | 91.5 | 100. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 39 | 100. | 98.103 | 100. | 76. | 21.937 | 4.684 | 94. | 98. | 100. |
| 70337p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/49-06/12/91 | 12 | 11. | 16.417 | 36. | 4. | 133.174 | 11.54 | 4.6 | 8. | 35.1 |
| 70338p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 68 | 42. | 42.529 | 85. | 7. | 432.313 | 20.792 | 13. | 24.75 | 74.2 |
| 70339p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM | 10/01/49-06/12/91 | 16 | 20. | 31.563 | 69. | 10. | 353.996 | 18.815 | 11.4 | 16.5 | 58.5 |
| 70340p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 69 | 54. | 56.797 | 97. | 12. | 567.87 | 23.83 | 24. | 38.5 | 93. |
| 70341 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM | 10/01/49-06/12/91 | 14 | 35.5 | 41.786 | 77. | 15. | 365.258 | 19.112 | 18.5 | 29.25 | 74.5 |
| 70342p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-06/12/91 | 27 | 84. | 81.963 | 100. | 37. | 278.575 | 16.691 | 50.2 | 74. | 99.2 |
| 70343p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-06/12/91 | 25 | 92. | 87.72 | 100. | 56. | 150.627 | 12.273 | 62.6 | 82.5 | 98.4 |
| 70344p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-06/12/91 | 24 | 99. | 97.583 | 100. | 83. | 13.471 | 3.67 | 93.5 | 97. | 100. |
| 70345p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-06/12/91 | 18 | 100. | 99.944 | 100. | 99. | 0.056 | 0.236 | 99.9 | 100. | 100. |
| 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 12/01/49-09/22/61 | 39 | 1.9 | 2.067 | 5.8 | 0.2 | 1.812 | 1.346 | 0.4 | 1. | 4. |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 265 | 1. | 1.423 | 11. | 0. | 1.868 | 1.367 | 0.36 | 0.65 | 3. |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 84 | 0. | 7.738 | 70. | 0. | 234.581 | 15.316 | 0. | 10. | 20. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 190 | 245. | 1611.163 | 27600. | 12. | 12738039.841 | 3569.039 | 54.6 | 120.75 | 4604. |
| 80155p | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 78 | 1065. | 7910.474 | 174000. | 49. | 562479516.356 | 23716.651 | 197.2 | 517.75 | 16420. |
| 80158 | BED MATERIAL FALL DIAMETER, % FINER THAN .062MM | 09/29/70-03/08/77 | 10 | 1. | 1.09 | 5. | 0.1 | 2.039 | 1.428 | 0.11 | 0.275 | 4.6 |
| 80159 | BED MATERIAL FALL DIAMETER, % FINER THAN .125MM | 09/29/70-03/08/77 | 10 | 1. | 2.53 | 14. | 0.3 | 16.565 | 4.07 | 0.37 | 1. | 12.8 |
| 80160 | BED MATERIAL FALL DIAMETER, % FINER THAN .250MM | 09/29/70-03/08/77 | 10 | 14.5 | 20.5 | 76. | 2. | 481.833 | 21.951 | 2.2 | 5.5 | 71.8 |
| 80161 | BED MATERIAL FALL DIAMETER, % FINER THAN .500MM | 09/29/70-03/08/77 | 10 | 62. | 55.5 | 90. | 13. | 970.944 | 31.16 | 13.9 | 23.5 | 89.5 |
| 80162 | BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM | 09/29/70-03/08/77 | 10 | 75. | 66. | 96. | 16. | 860.889 | 29.341 | 17.8 | 35.5 | 95.9 |
| 80169 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM | 09/29/70-03/08/77 | 10 | 80. | 68.8 | 96. | 17. | 840.622 | 28.993 | 19. | 38.5 | 96. |
| 80170 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM | 09/29/70-03/08/77 | 10 | 89. | 73.2 | 99. | 21. | 838.844 | 28.963 | 22.7 | 44.75 | 98.9 |
| 80171 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM | 09/29/70-03/08/77 | 10 | 92. | 78.6 | 100. | 32. | 665.6 | 25.799 | 33. | 59.25 | 100. |
| 82052 | BANVEL (DICAMBA) WHOLE WATER,UG/L | 06/20/84-08/31/92 | 14 | 0.02 | 0.021 | 0.04 | 0.005 | 0. | 0.012 | 0.005 | 0.01 | 0.04 |
| 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-08/31/92 | 15 ## | 0.005 | 0.005 | 0.005 | 0. | 0. | 0.001 | 0.003 | 0.005 | 0.005 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|------|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 97 | 15. | 14.487 | 24. | 5.5 | 15.261 | 3.907 | 8.98 | 11. | 17.5 | 19.02 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 30 | 22.5 | 21.777 | 34. | 11. | 43.303 | 6.581 | 12.1 | 16.5 | 26.125 | 31.8 |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 02/16/84-04/14/97 | 6 | 669.5 | 682.667 | 760. | 655. | 1507.867 | 38.831 | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 119 | 3000. | 3865.101 | 18060. | 534. | 8511764.617 | 2917.493 | 1210. | 2070. | 4890. | 7194. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 100 | 2750. | 4098.72 | 20700. | 684. | 12916275.173 | 3593.922 | 1215. | 1820. | 5080. | 8927. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 16 | 95. | 207.813 | 650. | 20. | 44046.563 | 209.873 | 27. | 51.25 | 337.5 | 650. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 30 | 5. | 5.7 | 11. | 0. | 7.114 | 2.667 | 3. | 3.75 | 7.25 | 9.8 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 142 | 793.5 | 794.676 | 1430. | 426. | 54145.086 | 232.691 | 493.3 | 594. | 979.25 | 1100. |
| 00300p | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 23 | 9.1 | 9.265 | 13.1 | 7.8 | 1.35 | 1.162 | 7.92 | 8.3 | 9.9 | 10.44 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 116 | 7.8 | 7.804 | 8.8 | 6.8 | 0.147 | 0.383 | 7.27 | 7.6 | 8.1 | 8.3 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 116 | 7.8 | 7.628 | 8.8 | 6.8 | 0.178 | 0.422 | 7.27 | 7.6 | 8.1 | 8.3 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 116 | 0.016 | 0.024 | 0.158 | 0.002 | 0.001 | 0.026 | 0.005 | 0.008 | 0.025 | 0.054 |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 12 | 8. | 8.092 | 8.5 | 7.7 | 0.05 | 0.223 | 7.76 | 8. | 8.275 | 8.47 |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 12 | 8. | 8.042 | 8.5 | 7.7 | 0.053 | 0.229 | 7.76 | 8. | 8.275 | 8.47 |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 12 | 0.01 | 0.009 | 0.02 | 0.003 | 0. | 0.004 | 0.003 | 0.005 | 0.01 | 0.018 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 14 | 2. | 2.343 | 7.1 | 0.8 | 2.624 | 1.62 | 0.9 | 1.3 | 2.75 | 5.55 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 74 | 148. | 145.757 | 246. | 82. | 880.57 | 29.674 | 103.5 | 124. | 169.25 | 180. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 107 | 178. | 176.664 | 300. | 100. | 1213.471 | 34.835 | 131.8 | 148. | 202. | 221. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 83 | 0. | 0.494 | 16. | 0. | 4.985 | 2.233 | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/20/80-07/28/89 | 10 | 0.05 | 0.067 | 0.16 | 0.03 | 0.002 | 0.043 | 0.03 | 0.038 | 0.09 | 0.156 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 15 | 0.29 | 0.311 | 0.68 | 0.02 | 0.041 | 0.202 | 0.02 | 0.14 | 0.45 | 0.608 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/20/80-07/28/89 | 10 | 0.815 | 3.983 | 19. | 0.4 | 45.176 | 6.721 | 0.4 | 0.55 | 5.15 | 18.5 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/20/80-07/28/89 | 10 | 0.46 | 0.644 | 1.5 | 0.12 | 0.237 | 0.487 | 0.128 | 0.275 | 1.2 | 1.47 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 12 | 0.5 | 0.517 | 1.6 | 0.1 | 0.145 | 0.381 | 0.13 | 0.3 | 0.575 | 1.33 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 29 | 0.13 | 0.567 | 9.5 | 0.005 | 3.061 | 1.75 | 0.01 | 0.055 | 0.345 | 1.2 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 113 | 260. | 262.912 | 524. | 140. | 5174.135 | 71.931 | 180. | 199. | 310. | 353.6 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 107 | 110. | 117.299 | 278. | 16. | 2372.815 | 48.712 | 66. | 80. | 149. | 177.4 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 121 | 68. | 70.603 | 168. | 36. | 364.925 | 19.103 | 49. | 56. | 82.5 | 94.8 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 121 | 20. | 20.602 | 45. | 5.6 | 55.988 | 7.482 | 12.2 | 15. | 26. | 29.8 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 112 | 74.5 | 72.818 | 146. | 14.6 | 815.918 | 28.564 | 36.3 | 48.25 | 91.5 | 108.4 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 102 | 1.9 | 1.914 | 3.6 | 0.3 | 0.351 | 0.593 | 1.13 | 1.5 | 2.3 | 2.67 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 76 | 37. | 36.039 | 54. | 6. | 38.812 | 6.23 | 27.7 | 33.25 | 39. | 42. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 103 | 3.3 | 3.23 | 6.3 | 0.8 | 1.082 | 1.04 | 2. | 2.5 | 3.7 | 4.66 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 114 | 10. | 11.079 | 27. | 1. | 26.48 | 5.146 | 5. | 7. | 14. | 18. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 115 | 245. | 251.035 | 556. | 95. | 9351.49 | 96.703 | 134.4 | 166. | 315. | 377.6 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 107 | 0.4 | 0.396 | 1.3 | 0.1 | 0.027 | 0.164 | 0.2 | 0.3 | 0.5 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 109 | 10. | 10.434 | 21. | 0.05 | 10.998 | 3.316 | 7.1 | 8.6 | 12. | 15. |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 10/01/70-03/14/91 | 4 | 1.5 | 2.625 | 7. | 0.5 | 8.896 | 2.983 | ** | ** | ** | ** |
| 01005 | BARIUM, DISSOLVED (UG/L AS Ba) | 10/01/70-03/14/91 | 3 | 50. | 51.333 | 59. | 45. | 50.333 | 7.095 | ** | ** | ** | ** |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/01/70-03/14/91 | 3 ## | 0.25 | 0.167 | 0.25 | 0. | 0.021 | 0.144 | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 80 | 90. | 99.875 | 370. | 0. | 3062.009 | 55.335 | 50. | 70. | 110. | 159. |
| 01025 | CADMIUM, DISSOLVED (UG/L AS Cd) | 10/01/70-03/14/91 | 4 ## | 0.5 | 0.375 | 0.5 | 0. | 0.063 | 0.25 | ** | ** | ** | ** |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/01/70-03/14/91 | 4 ## | 2.5 | 2. | 3. | 0. | 1.833 | 1.354 | ** | ** | ** | ** |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | 10/01/70-03/14/91 | 2 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/01/70-03/14/91 | 4 ## | 5. | 5.25 | 9. | 2. | 8.25 | 2.872 | ** | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS Fe) | 03/26/47-09/15/71 | 27 | 10. | 14.444 | 50. | 0. | 271.795 | 16.486 | 0. | 0. | 20. | 50. |
| 01046 | IRON, DISSOLVED (UG/L AS Fe) | 01/26/71-03/14/91 | 7 | 60. | 111.143 | 400. | 20. | 17662.476 | 132.9 | ** | ** | ** | ** |
| 01049 | LEAD, DISSOLVED (UG/L AS Pb) | 10/01/70-03/14/91 | 4 | 4. | 5. | 10. | 2. | 12.667 | 3.559 | ** | ** | ** | ** |
| 01056 | MANGANESE, DISSOLVED (UG/L AS Mn) | 10/01/70-03/14/91 | 4 | 4. | 4.5 | 10. | 0. | 17.667 | 4.203 | ** | ** | ** | ** |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS Mo) | 10/01/70-08/30/89 | 3 | 5. | 6.333 | 10. | 4. | 10.333 | 3.215 | ** | ** | ** | ** |
| 01065 | NICKEL, DISSOLVED (UG/L AS Ni) | 10/01/70-08/30/89 | 3 | 5. | 5.333 | 10. | 1. | 20.333 | 4.509 | ** | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS Ag) | 10/01/70-03/14/91 | 4 | 0.75 | 0.875 | 2. | 0. | 0.729 | 0.854 | ** | ** | ** | ** |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS Sr) | 10/01/70-03/14/91 | 2 | 570. | 570. | 650. | 490. | 12800. | 113.137 | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/01/70-08/30/89 | 2 ## | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS Zn) | 10/01/70-03/14/91 | 4 | 20. | 16.75 | 20. | 7. | 42.25 | 6.5 | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS Al) | 10/01/70-03/14/91 | 1 | 370. | 370. | 370. | 370. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS Li) | 10/01/70-03/14/91 | 2 | 21. | 21. | 23. | 19. | 8. | 2.828 | ** | ** | ** | ** |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 14 | 240. | 1653.571 | 13300. | 9. | 12935670.418 | 3596.619 | 18.5 | 143.25 | 1225. | 9150. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 14 | 2.379 | 2.524 | 4.124 | 0.954 | 0.685 | 0.827 | 1.201 | 2.155 | 3.082 | 3.911 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0002

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|------------------|-----------|---------|---------------------|--------------|----------|---------|--------|---------|
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | | | GEOMETRIC MEAN = | | | | | | | | |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0.005 | 0.02 | 0. | 0.01 | ** | ** | ** | ** |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 4 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE (UG/L) | 06/20/84-08/31/92 | 9 ## | 0.005 | 0.007 | 0.01 | 0.005 | 0. | 0.003 | 0.005 | 0.01 | 0.01 |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 14 | 0.045 | 0.101 | 0.46 | 0.005 | 0.018 | 0.134 | 0.005 | 0.153 | 0.36 |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 14 ## | 0.005 | 0.004 | 0.01 | 0. | 0. | 0.003 | 0. | 0.005 | 0.008 |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 14 ## | 0.005 | 0.003 | 0.005 | 0. | 0. | 0.002 | 0. | 0.005 | 0.005 |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 95 | 533. | 546.705 | 1090. | 288. | 30838.827 | 175.61 | 341.4 | 400. | 780. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 38 | 546. | 530.947 | 770. | 276. | 19876.808 | 140.985 | 322.7 | 383.5 | 732. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 113 | 4080.01 | 5016.644 | 21750.1 | 1480. | 11954083.716 | 3457.468 | 2236.01 | 2965. | 9470. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 113 | 0.73 | 0.745 | 1.48 | 0.39 | 0.054 | 0.233 | 0.448 | 0.54 | 1.056 |
| 70331p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 41 | 77. | 79.317 | 97. | 50. | 143.022 | 11.959 | 63.2 | 71. | 91.5 |
| 70332p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 37 | 90. | 88.027 | 98. | 66. | 66.416 | 8.15 | 75. | 84. | 94.5 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 36 | 99. | 98.056 | 100. | 92. | 3.14 | 1.772 | 95.7 | 97.25 | 99. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 31 | 100. | 99.968 | 100. | 99. | 0.032 | 0.18 | 100. | 100. | 100. |
| 70337p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/49-06/12/91 | 11 | 26. | 31.727 | 62. | 14. | 237.418 | 15.408 | 14.2 | 19. | 43. |
| 70338p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 56 | 35.5 | 41.179 | 79. | 9. | 398.404 | 19.96 | 17. | 26. | 59.75 |
| 70339p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM | 10/01/49-06/12/91 | 14 | 43.5 | 50.143 | 82. | 16. | 539.209 | 23.221 | 19.5 | 30.25 | 75.25 |
| 70340p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 56 | 54. | 57.196 | 96. | 15. | 532.343 | 23.073 | 25. | 39.25 | 78.5 |
| 70341 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM | 10/01/49-06/12/91 | 9 | 54. | 62.222 | 90. | 30. | 440.194 | 20.981 | 30. | 48.5 | 86. |
| 70342p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-06/12/91 | 31 | 85. | 82.581 | 97. | 43. | 186.185 | 13.645 | 63. | 75. | 95. |
| 70343p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-06/12/91 | 31 | 94. | 91.742 | 100. | 75. | 45.198 | 6.723 | 79.6 | 87. | 97. |
| 70344p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-06/12/91 | 31 | 99. | 98.548 | 100. | 92. | 3.989 | 1.997 | 94.6 | 98. | 100. |
| 70345p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-06/12/91 | 20 | 100. | 99.85 | 100. | 99. | 0.134 | 0.366 | 99. | 100. | 100. |
| 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 12/01/49-09/22/61 | 21 | 0.9 | 1.371 | 5.1 | 0. | 1.658 | 1.288 | 0.02 | 0.25 | 2.3 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 94 | 1.15 | 1.356 | 5.1 | 0. | 0.972 | 0.986 | 0.2 | 0.675 | 2.7 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 29 | 10. | 11.379 | 70. | 0. | 212.315 | 14.571 | 0. | 5. | 20. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 80 | 2150. | 4403.688 | 28900. | 69. | 36170998.218 | 6014.233 | 311.6 | 872.75 | 5662.5 |
| 80155p | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 33 | 16200. | 89603.303 | 867000. | 133.37096498924.218 | 192604.514 | 609.4 | 2170. | 72400. | 320600. |
| 80158 | BED MATERIAL FALL DIAMETER, % FINER THAN .062MM | 09/29/70-03/08/77 | 4 | 1. | 1.075 | 2. | 0.3 | 0.489 | 0.699 | ** | ** | ** |
| 80159 | BED MATERIAL FALL DIAMETER, % FINER THAN .125MM | 09/29/70-03/08/77 | 4 | 1. | 1.75 | 4. | 1. | 2.25 | 1.5 | ** | ** | ** |
| 80160 | BED MATERIAL FALL DIAMETER, % FINER THAN .250MM | 09/29/70-03/08/77 | 4 | 14.5 | 18.5 | 37. | 8. | 165.667 | 12.871 | ** | ** | ** |
| 80161 | BED MATERIAL FALL DIAMETER, % FINER THAN .500MM | 09/29/70-03/08/77 | 4 | 78.5 | 67.25 | 91. | 21. | 998.917 | 31.606 | ** | ** | ** |
| 80162 | BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM | 09/29/70-03/08/77 | 4 | 87.5 | 76. | 100. | 29. | 1018. | 31.906 | ** | ** | ** |
| 80169 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM | 09/29/70-03/08/77 | 3 | 86. | 69.333 | 90. | 32. | 1049.333 | 32.393 | ** | ** | ** |
| 80170 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM | 09/29/70-03/08/77 | 3 | 87. | 71. | 90. | 36. | 921. | 30.348 | ** | ** | ** |
| 80171 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM | 09/29/70-03/08/77 | 3 | 88. | 75. | 92. | 45. | 679. | 26.058 | ** | ** | ** |
| 82052 | BANVEL (DICAMBA) WHOLE WATER,UG/L | 06/20/84-08/31/92 | 9 | 0.01 | 0.028 | 0.1 | 0.005 | 0.001 | 0.031 | 0.005 | 0.005 | 0.04 |
| 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-08/31/92 | 10 ## | 0.005 | 0.005 | 0.005 | 0. | 0. | 0.002 | 0.001 | 0.005 | 0.005 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0002

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|------|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/25/47-04/14/97 | 66 | 20.5 | 20.356 | 26.5 | 13. | 10.152 | 3.186 | 16. | 18.75 | 22.35 | 25. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/02/75-04/14/97 | 24 | 27.5 | 28.183 | 42. | 15.5 | 32.068 | 5.663 | 21. | 24.625 | 32.75 | 34.45 |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 02/16/84-04/14/97 | 5 | 662. | 665.6 | 678. | 660. | 58.8 | 7.668 | ** | ** | ** | ** |
| 00060p | FLOW, STREAM, MEAN DAILY CFS | 03/26/47-04/18/79 | 81 | 2450. | 3751.37 | 20200. | 370. | 12047925.611 | 3471.012 | 798.8 | 1300. | 5640. | 9019.6 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/01/49-04/14/97 | 63 | 3330. | 4447.048 | 10600. | 612. | 10782182.465 | 3283.623 | 739.4 | 1720. | 7180. | 9564. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 10/10/73-07/29/80 | 11 | 90. | 299.091 | 1900. | 1. | 333133.291 | 577.177 | 1.6 | 30. | 180. | 1680. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 11/01/56-11/19/69 | 22 | 6. | 6.182 | 12. | 3. | 5.108 | 2.26 | 3.3 | 4.75 | 7.25 | 10.1 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/26/47-04/14/97 | 108 | 814.5 | 883.759 | 3030. | 355. | 124891.885 | 353.4 | 528.3 | 647.75 | 1097.5 | 1272. |
| 00300p | OXYGEN, DISSOLVED MG/L | 08/29/69-04/14/97 | 18 | 7.8 | 7.922 | 10.2 | 6.6 | 0.721 | 0.849 | 6.69 | 7.4 | 8.4 | 8.85 |
| 00400p | PH (STANDARD UNITS) | 03/26/47-04/14/97 | 86 | 7.8 | 7.843 | 8.5 | 7. | 0.13 | 0.36 | 7.4 | 7.6 | 8.2 | 8.3 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 03/26/47-04/14/97 | 86 | 7.8 | 7.7 | 8.5 | 7. | 0.15 | 0.388 | 7.4 | 7.6 | 8.2 | 8.3 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/26/47-04/14/97 | 86 | 0.016 | 0.02 | 0.1 | 0.003 | 0. | 0.017 | 0.005 | 0.006 | 0.025 | 0.04 |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/17/80-03/14/91 | 9 | 7.8 | 7.933 | 8.7 | 7.6 | 0.105 | 0.324 | 7.6 | 7.75 | 8.05 | 8.7 |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/17/80-03/14/91 | 9 | 7.8 | 7.857 | 8.7 | 7.6 | 0.112 | 0.334 | 7.6 | 7.75 | 8.05 | 8.7 |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/80-03/14/91 | 9 | 0.016 | 0.014 | 0.025 | 0.002 | 0. | 0.007 | 0.002 | 0.009 | 0.018 | 0.025 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 11/30/71-10/07/81 | 13 | 1.9 | 2.585 | 10. | 0.9 | 5.631 | 2.373 | 1.06 | 1.4 | 2.75 | 7.52 |
| 00410p | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/26/47-09/04/80 | 55 | 140. | 145.055 | 227. | 83. | 967.645 | 31.107 | 102.2 | 125. | 164. | 190. |
| 00440p | BICARBONATE ION (MG/L AS HCO3) | 03/26/47-12/17/81 | 79 | 180. | 178.342 | 276. | 101. | 1334.689 | 36.533 | 136. | 153. | 201. | 230. |
| 00445p | CARBONATE ION (MG/L AS CO3) | 10/03/50-12/17/81 | 63 | 0. | 0.413 | 18. | 0. | 5.569 | 2.36 | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/20/80-07/28/89 | 10 | 0.06 | 0.245 | 1.8 | 0.005 | 0.302 | 0.55 | 0.006 | 0.033 | 0.16 | 1.639 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 11/30/71-08/23/79 | 13 | 0.47 | 0.468 | 0.99 | 0.11 | 0.072 | 0.268 | 0.122 | 0.225 | 0.665 | 0.902 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/20/80-07/28/89 | 10 | 1.45 | 2.268 | 5.9 | 0.9 | 3.104 | 1.762 | 0.908 | 0.995 | 3.7 | 5.77 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/20/80-07/28/89 | 10 | 0.525 | 0.611 | 1.1 | 0.14 | 0.106 | 0.325 | 0.156 | 0.375 | 0.925 | 1.09 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 10/04/79-06/06/86 | 10 | 0.4 | 0.48 | 1.2 | 0.1 | 0.122 | 0.349 | 0.11 | 0.275 | 0.625 | 1.18 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/19/69-07/28/89 | 25 | 0.08 | 0.35 | 6. | 0.01 | 1.395 | 1.181 | 0.01 | 0.03 | 0.185 | 0.332 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/26/47-02/16/83 | 84 | 260. | 290.417 | 1450. | 119. | 24888.511 | 157.761 | 171.5 | 208.5 | 348.5 | 408.5 |
| 00902p | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/26/47-12/17/81 | 79 | 120. | 145.722 | 1280. | 30. | 20997.434 | 144.905 | 59. | 81. | 170. | 229. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/26/47-03/14/91 | 88 | 69. | 79.136 | 482. | 35. | 2690.142 | 51.867 | 46. | 54.5 | 90.5 | 106.5 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/26/47-03/14/91 | 88 | 21. | 23.191 | 60. | 4.1 | 92.84 | 9.635 | 13. | 16. | 28.75 | 36.1 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 11/07/51-03/14/91 | 85 | 80. | 89.071 | 281. | 30. | 1895.352 | 43.536 | 44. | 59. | 110. | 150.6 |
| 00931p | SODIUM ADSORPTION RATIO | 03/11/53-02/16/83 | 76 | 2. | 2.163 | 3.5 | 1.1 | 0.425 | 0.652 | 1.4 | 1.7 | 2.575 | 3.23 |
| 00932p | SODIUM, PERCENT | 12/01/49-02/16/83 | 56 | 38. | 38.071 | 48. | 30. | 13.74 | 3.707 | 33.7 | 36. | 40. | 43.3 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 03/11/53-06/06/86 | 75 | 3.7 | 4. | 13. | 0.3 | 3.439 | 1.855 | 2.3 | 2.8 | 4.7 | 6.34 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 03/26/47-06/06/86 | 85 | 10. | 12.6 | 38. | 4. | 46.243 | 6.8 | 6. | 8. | 17. | 22. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 03/26/47-06/06/86 | 85 | 250. | 298.094 | 1770. | 85. | 44104.824 | 210.011 | 136. | 180. | 364. | 493.6 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 03/26/47-06/06/86 | 78 | 0.4 | 0.432 | 0.9 | 0.2 | 0.025 | 0.157 | 0.2 | 0.3 | 0.5 | 0.61 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 03/26/47-03/14/91 | 78 | 10. | 10.874 | 24. | 6.8 | 8.581 | 2.929 | 7.99 | 9.175 | 12. | 14. |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 10/01/70-03/14/91 | 2 | 2.5 | 2.5 | 3. | 2. | 0.5 | 0.707 | ** | ** | ** | ** |
| 01005 | BARIUM, DISSOLVED (UG/L AS Ba) | 10/01/70-03/14/91 | 1 ## | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/01/70-03/14/91 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01020p | BORON, DISSOLVED (UG/L AS B) | 06/01/48-03/14/91 | 63 | 100. | 113.651 | 320. | 20. | 3304.199 | 57.482 | 50. | 80. | 150. | 192. |
| 01025 | CADMIUM, DISSOLVED (UG/L AS Cd) | 10/01/70-03/14/91 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 10/01/70-03/14/91 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 10/01/70-03/14/91 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS FE) | 03/26/47-09/15/71 | 18 | 15. | 36.111 | 190. | 0. | 2589.869 | 50.891 | 0. | 0. | 50. | 118. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/26/71-03/14/91 | 7 | 70. | 75.714 | 220. | 0. | 5095.238 | 71.381 | ** | ** | ** | ** |
| 01049 | LEAD, DISSOLVED (UG/L AS Pb) | 10/01/70-03/14/91 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 10/01/70-03/14/91 | 2 ## | 2.5 | 2.5 | 5. | 0. | 12.5 | 3.536 | ** | ** | ** | ** |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/01/70-08/30/89 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/01/70-03/14/91 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/01/70-03/14/91 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/01/70-03/14/91 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 270. | 440.25 | 2100. | 93. | 295864.386 | 543.934 | 95.1 | 177.5 | 482.5 | 1638. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 10/03/76-07/28/89 | 12 | 2.427 | 2.472 | 3.322 | 1.968 | 0.134 | 0.367 | 1.978 | 2.248 | 2.683 | 3.15 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 296.627 | | | | | | | | |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0002

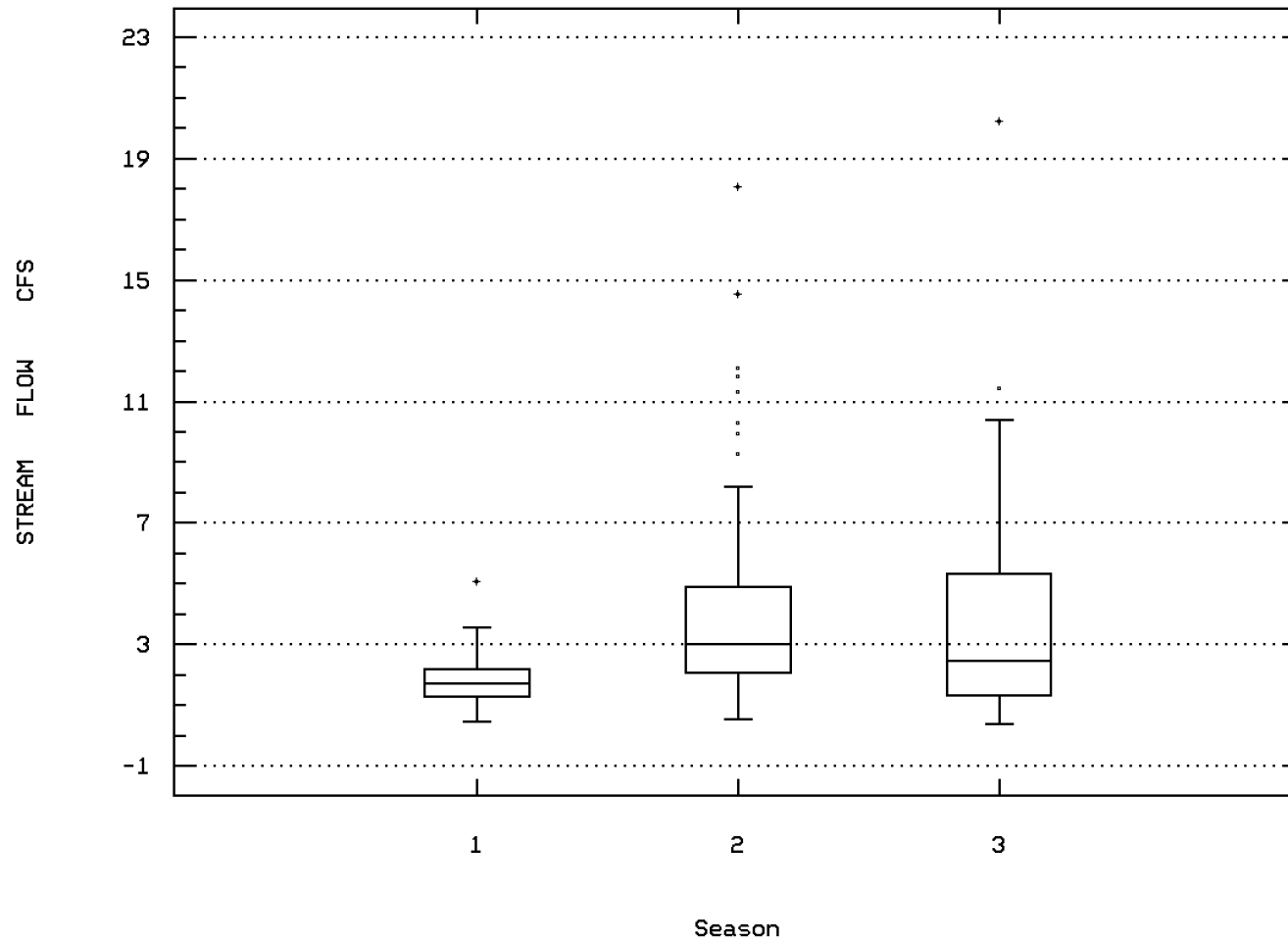
| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-------|--------|-----------|---------|---------|---------------|-----------|-------|--------|--------|--------|
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0.005 | 0.005 | 0.01 | 0. | 0. | 0.007 | ** | ** | ** | ** |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0.01 | 0.01 | 0.02 | 0. | 0. | 0.014 | ** | ** | ** | ** |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-09/04/80 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE (UG/L) | 06/20/84-08/31/92 | 11 | 0.01 | 0.012 | 0.03 | 0.005 | 0. | 0.008 | 0.005 | 0.005 | 0.02 | 0.028 |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 13 | 0.06 | 0.065 | 0.1 | 0. | 0.001 | 0.031 | 0.016 | 0.045 | 0.1 | 0.1 |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 13 ## | 0.005 | 0.004 | 0.005 | 0. | 0. | 0.002 | 0. | 0.005 | 0.005 | 0.005 |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/07/71-08/31/92 | 13 ## | 0.005 | 0.004 | 0.005 | 0. | 0. | 0.002 | 0. | 0.005 | 0.005 | 0.005 |
| 70300p | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 03/26/47-10/10/73 | 72 | 592. | 696.486 | 3380. | 234. | 233475.662 | 483.193 | 357.9 | 435. | 810. | 1004. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-02/16/83 | 35 | 518. | 578.2 | 992. | 250. | 39311.106 | 198.27 | 350.8 | 434. | 712. | 905. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 03/26/47-02/16/83 | 87 | 3440. | 4793.453 | 29800. | 1110.01 | 17918905.621 | 4233.073 | 1738. | 2220. | 6060. | 9208. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 03/26/47-02/16/83 | 87 | 0.78 | 0.914 | 4.6 | 0.32 | 0.376 | 0.613 | 0.488 | 0.59 | 1.08 | 1.35 |
| 70331p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/49-06/06/83 | 23 | 72. | 73.783 | 91. | 50. | 129.723 | 11.39 | 60. | 64. | 80. | 90.6 |
| 70332p | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/49-06/06/83 | 15 | 85. | 86.067 | 97. | 78. | 33.495 | 5.788 | 78.6 | 81. | 90. | 95.2 |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/49-09/19/61 | 15 | 98. | 97.667 | 99. | 95. | 1.952 | 1.397 | 95.6 | 96. | 99. | 99. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/49-09/19/61 | 15 | 100. | 99.933 | 100. | 99. | 0.067 | 0.258 | 99.6 | 100. | 100. | 100. |
| 70337p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/49-06/12/91 | 6 | 31. | 30.667 | 44. | 16. | 108.267 | 10.405 | ** | ** | ** | ** |
| 70338p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/49-06/12/91 | 30 | 31. | 37.1 | 72. | 14. | 298.231 | 17.269 | 18. | 23.75 | 52.75 | 66.5 |
| 70339p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM | 10/01/49-06/12/91 | 6 | 55.5 | 54.833 | 73. | 36. | 222.167 | 14.905 | ** | ** | ** | ** |
| 70340p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/49-06/12/91 | 30 | 42.5 | 51.867 | 95. | 25. | 449.154 | 21.193 | 28.1 | 36. | 71.5 | 85.9 |
| 70341 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM | 10/01/49-06/12/91 | 6 | 65.5 | 64.333 | 84. | 44. | 199.467 | 14.123 | ** | ** | ** | ** |
| 70342p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-06/12/91 | 11 | 70. | 71.909 | 97. | 55. | 196.891 | 14.032 | 55.6 | 61. | 80. | 96.8 |
| 70343p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-06/12/91 | 11 | 86. | 88.091 | 99. | 78. | 43.091 | 6.564 | 78.6 | 83. | 92. | 98.8 |
| 70344p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-06/12/91 | 11 | 98. | 98.364 | 100. | 96. | 2.855 | 1.69 | 96. | 97. | 100. | 100. |
| 70345p | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-06/12/91 | 6 | 100. | 99.667 | 100. | 98. | 0.667 | 0.816 | ** | ** | ** | ** |
| 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 12/01/49-09/22/61 | 10 | 0.55 | 0.86 | 2.1 | 0.2 | 0.523 | 0.723 | 0.21 | 0.3 | 1.675 | 2.08 |
| 71851p | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/26/47-08/23/79 | 69 | 1.2 | 3.428 | 150. | 0.2 | 321.344 | 17.926 | 0.4 | 0.55 | 1.7 | 2.7 |
| 71885 | IRON (UG/L AS FE) | 12/18/60-05/04/67 | 22 | 0. | 3.636 | 20. | 0. | 33.766 | 5.811 | 0. | 0. | 10. | 10. |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/49-09/18/92 | 57 | 1900. | 2695.526 | 14200. | 85. | 9734012.539 | 3119.938 | 156.6 | 329.5 | 4135. | 6292. |
| 80155p | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-02/26/86 | 22 | 4105. | 16005.682 | 83700. | 165. | 511763810.323 | 22622.197 | 347.3 | 1382.5 | 30325. | 49720. |
| 80158 | BED MATERIAL FALL DIAMETER, % FINER THAN .062MM | 09/29/70-03/08/77 | 4 | 0.75 | 0.725 | 1. | 0.4 | 0.103 | 0.32 | ** | ** | ** | ** |
| 80159 | BED MATERIAL FALL DIAMETER, % FINER THAN .125MM | 09/29/70-03/08/77 | 4 | 1. | 1.25 | 2. | 1. | 0.25 | 0.5 | ** | ** | ** | ** |
| 80160 | BED MATERIAL FALL DIAMETER, % FINER THAN .250MM | 09/29/70-03/08/77 | 4 | 22.5 | 19.25 | 26. | 6. | 80.917 | 8.995 | ** | ** | ** | ** |
| 80161 | BED MATERIAL FALL DIAMETER, % FINER THAN .500MM | 09/29/70-03/08/77 | 4 | 44.5 | 51. | 88. | 27. | 750. | 27.386 | ** | ** | ** | ** |
| 80162 | BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM | 09/29/70-03/08/77 | 4 | 48. | 56.5 | 98. | 32. | 903. | 30.05 | ** | ** | ** | ** |
| 80169 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM | 09/29/70-03/08/77 | 4 | 49. | 57.25 | 98. | 33. | 875.583 | 29.59 | ** | ** | ** | ** |
| 80170 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM | 09/29/70-03/08/77 | 4 | 49.5 | 58. | 98. | 35. | 846. | 29.086 | ** | ** | ** | ** |
| 80171 | BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM | 09/29/70-03/08/77 | 4 | 54. | 62. | 99. | 41. | 700. | 26.458 | ** | ** | ** | ** |
| 82052 | BANVEL (DICAMBA) WHOLE WATER,UG/L | 06/20/84-08/31/92 | 11 | 0.03 | 0.037 | 0.07 | 0.01 | 0.001 | 0.024 | 0.01 | 0.01 | 0.06 | 0.07 |
| 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-08/31/92 | 11 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | 0.005 | 0.005 | 0.005 | 0.005 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0002 Parameter Code: 00060

FLOW, STREAM, MEAN DAILY

(X 1000)

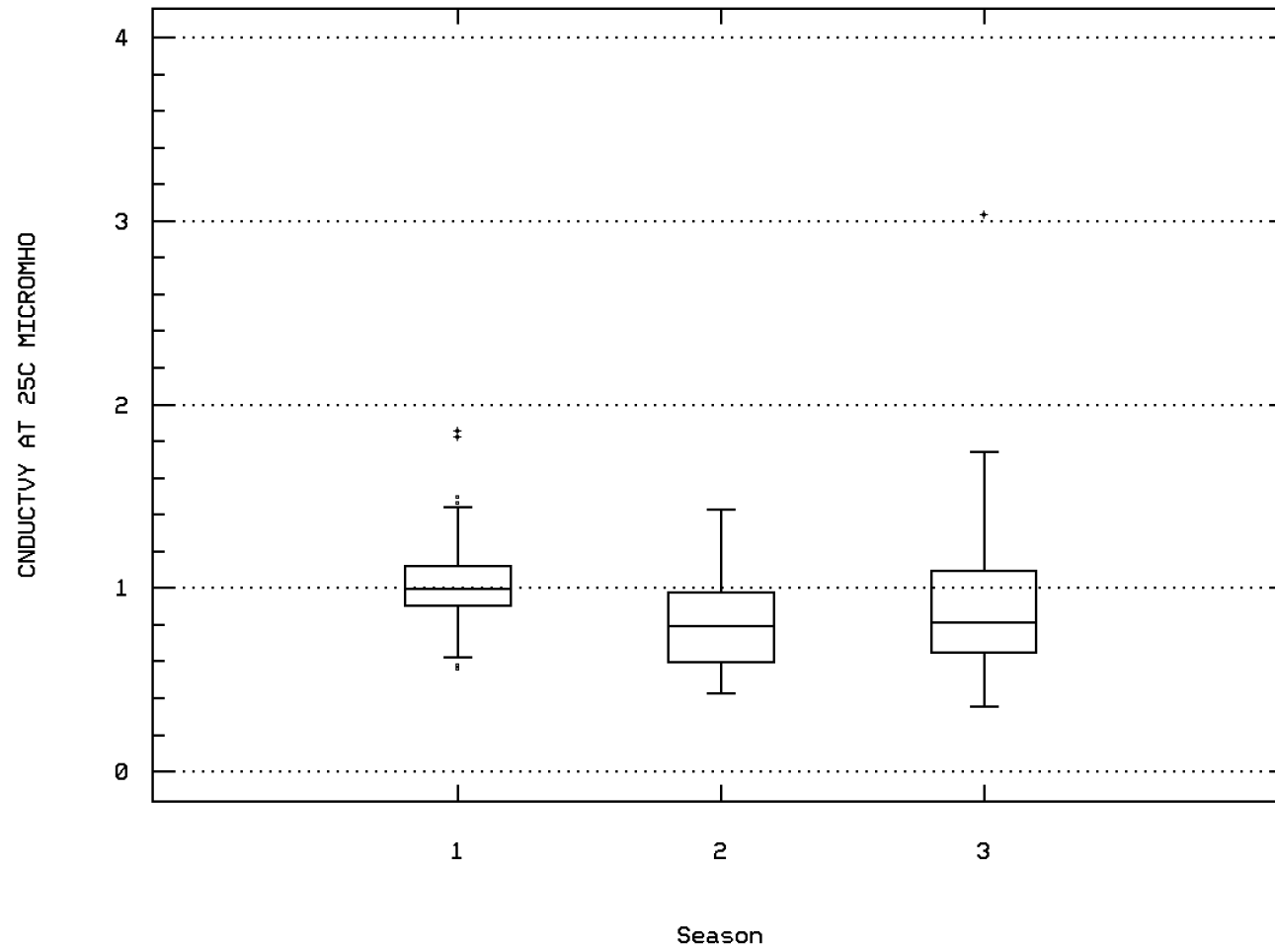


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

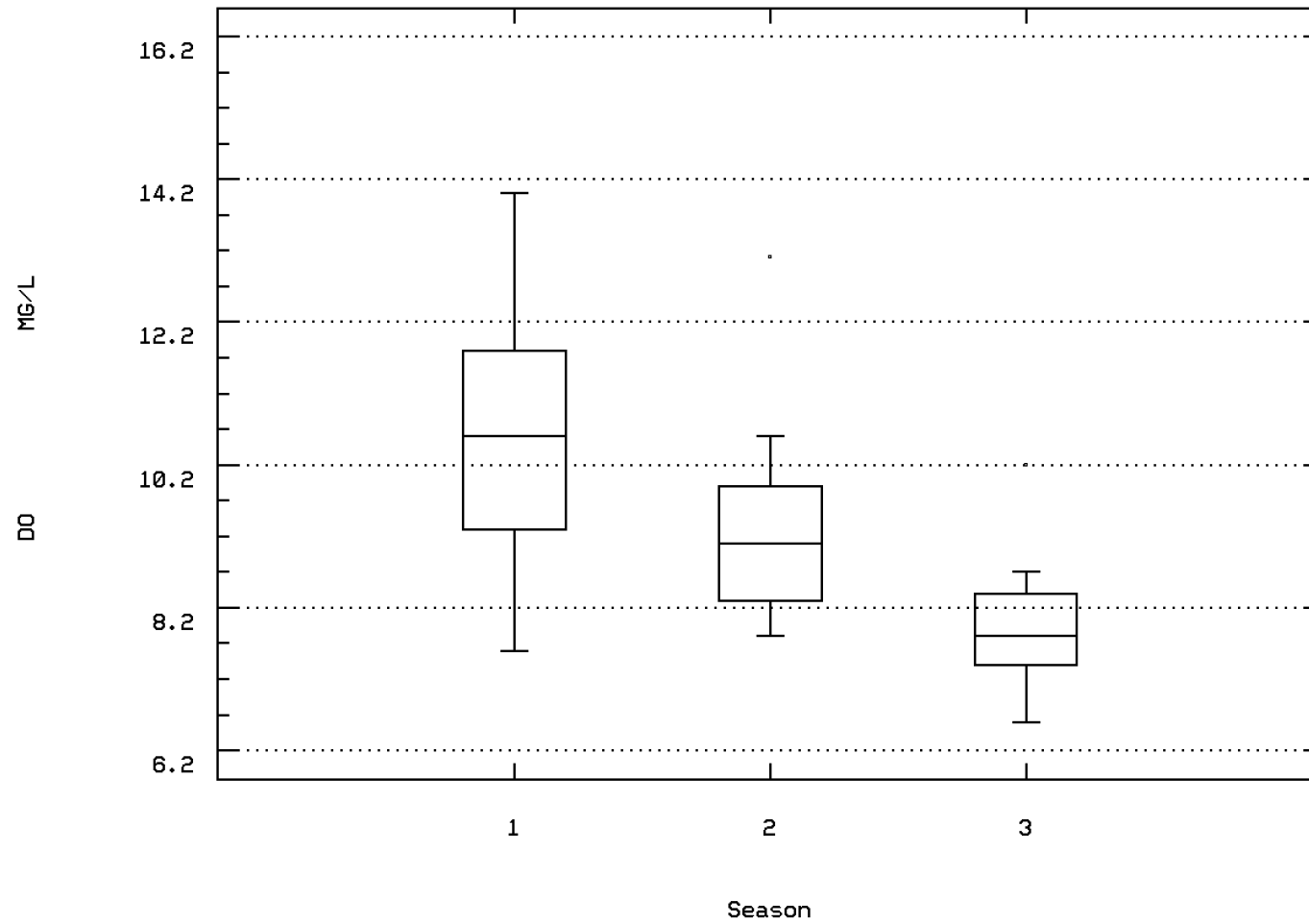
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BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00300

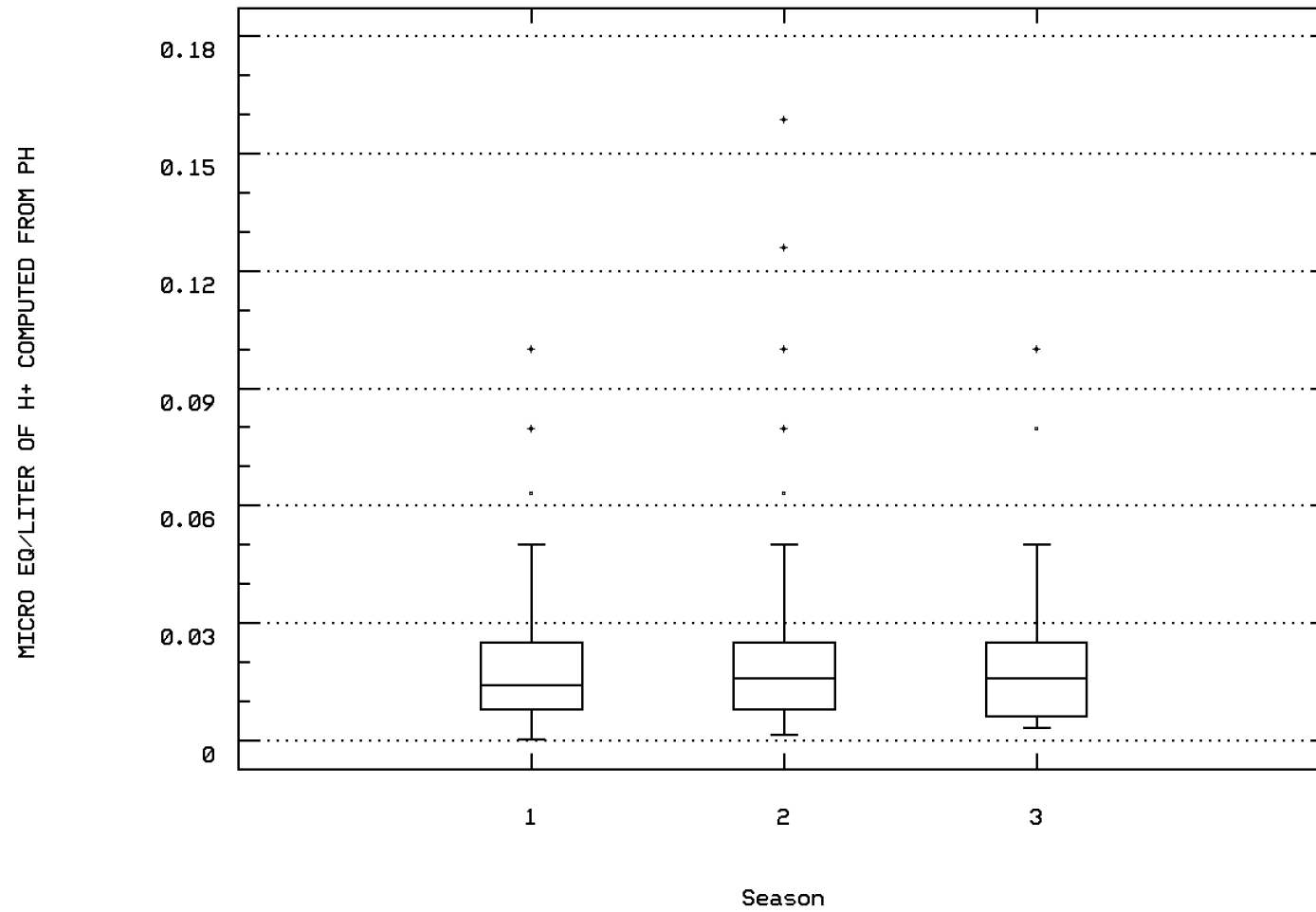
OXYGEN, DISSOLVED



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00400

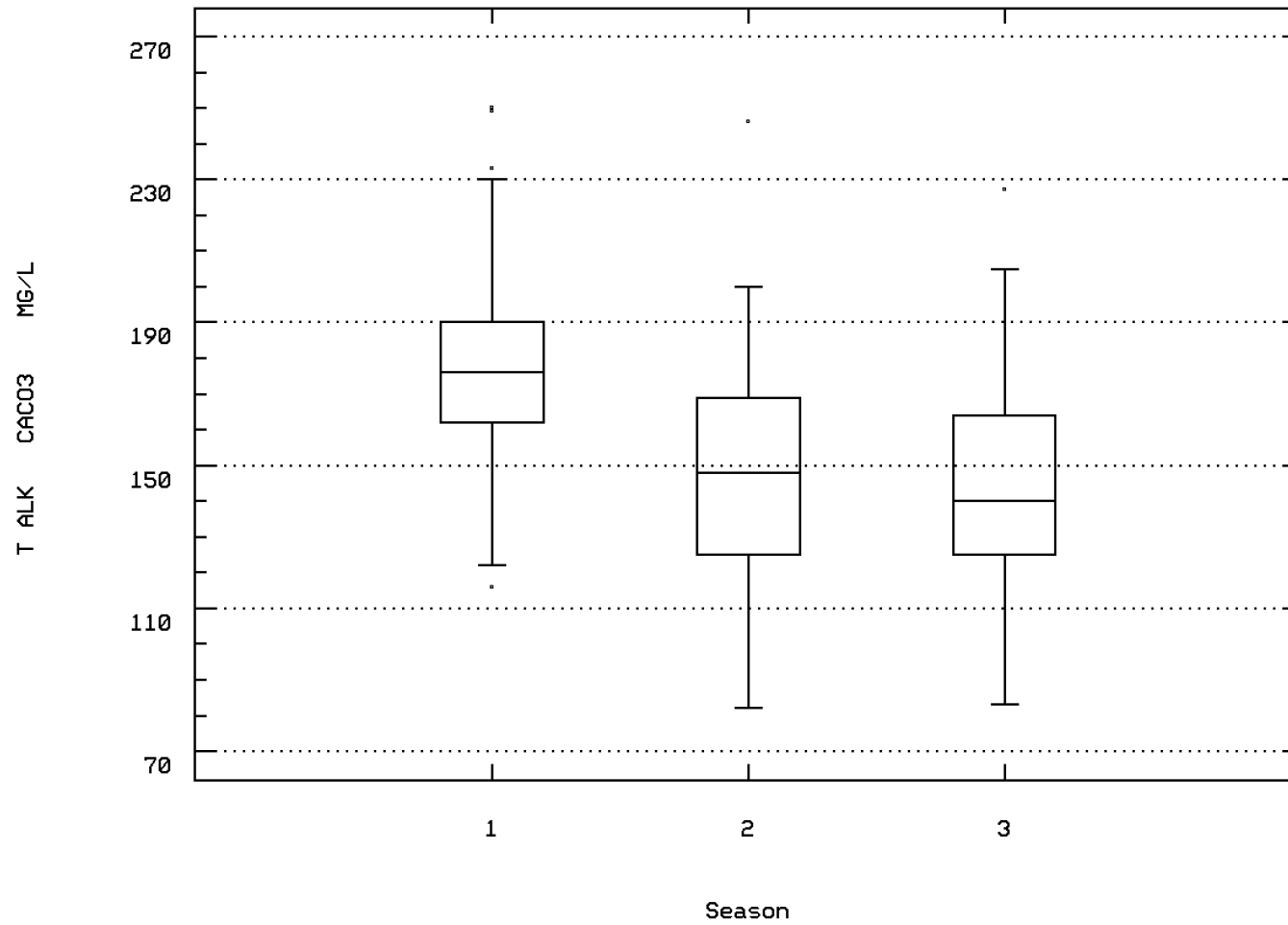
MICRO EQ/LITER OF H+ COMPUTED FROM PH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00410

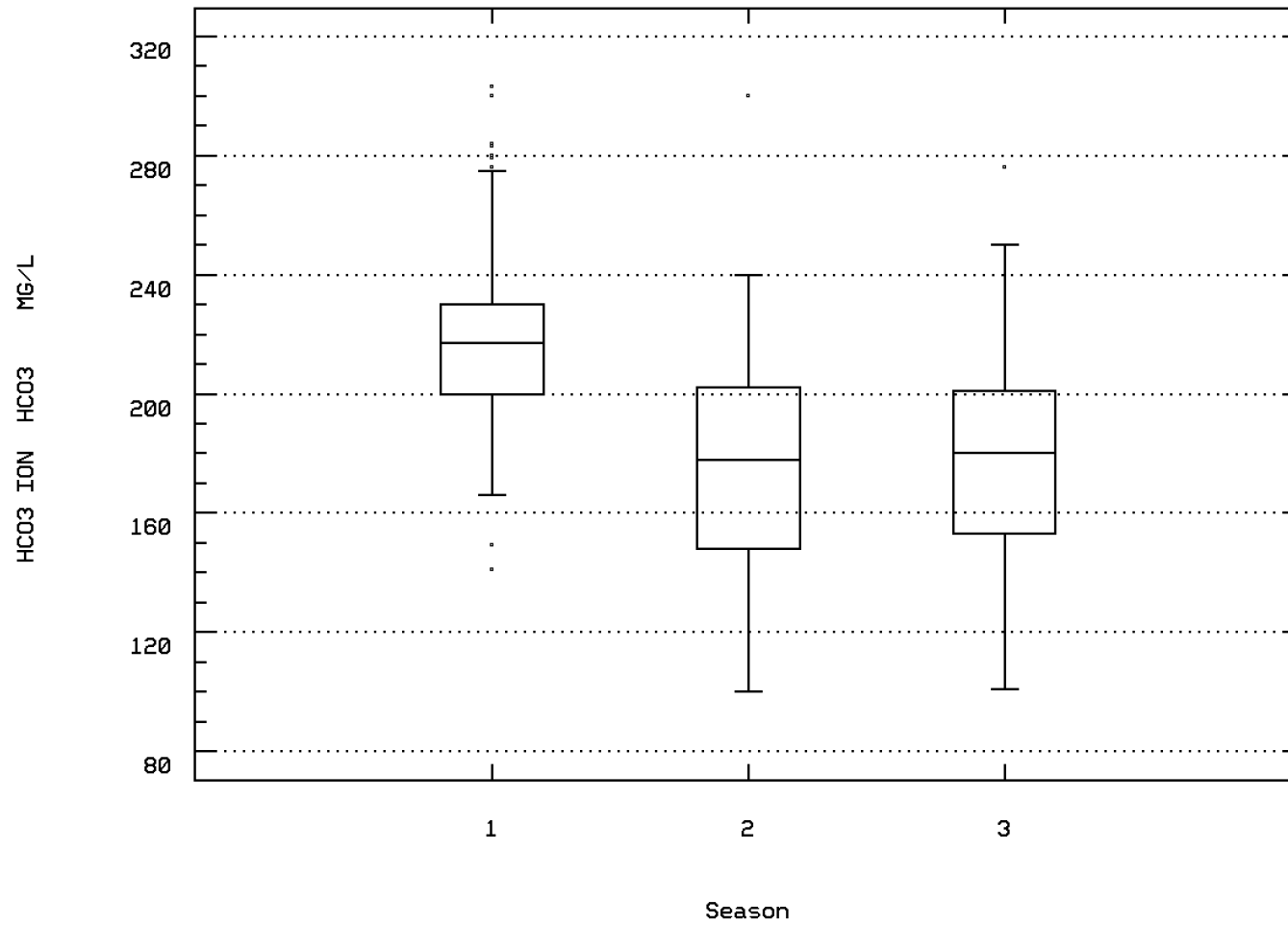
ALKALINITY, TOTAL (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00440

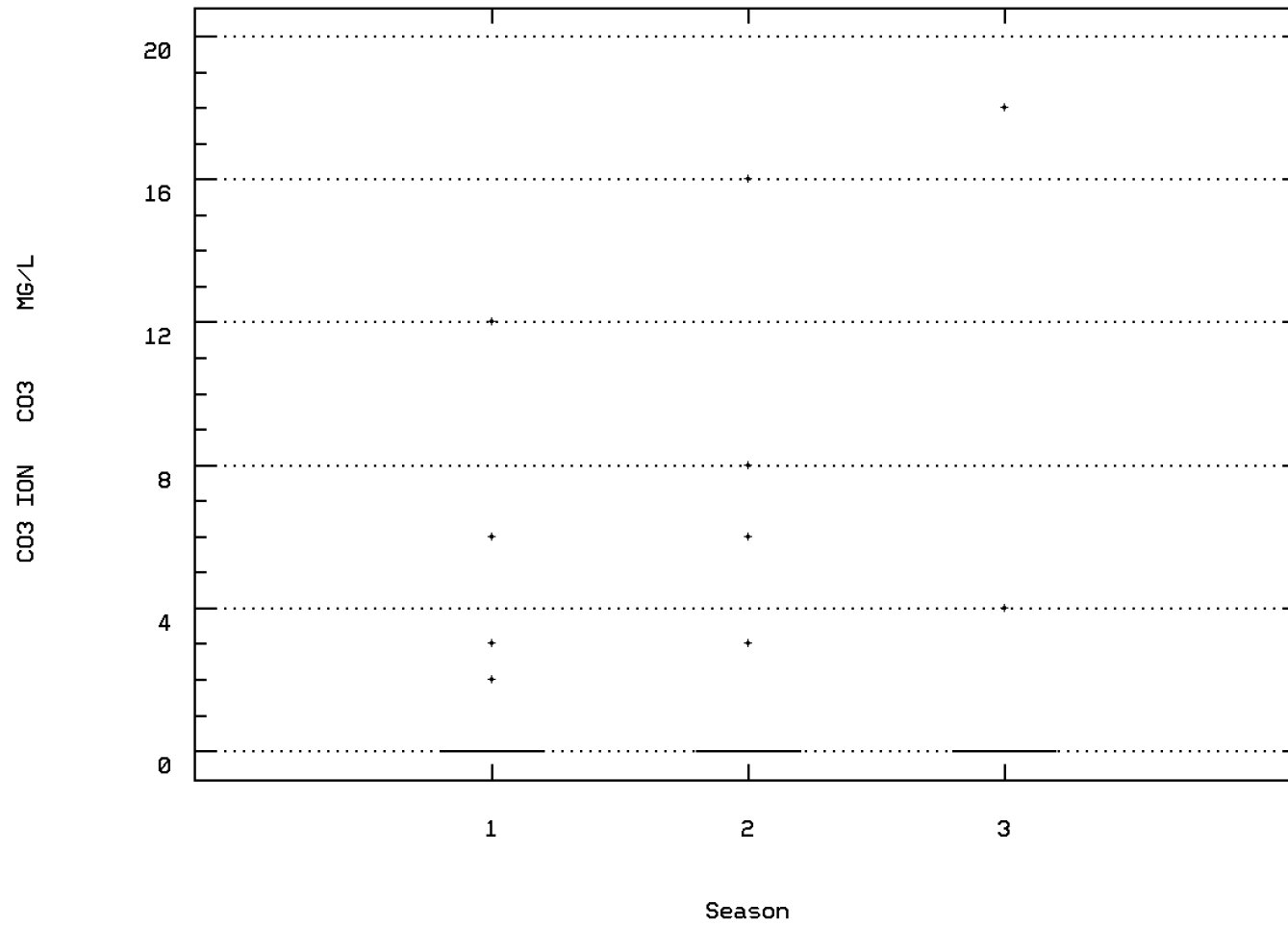
BICARBONATE ION (MG/L AS HCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00445

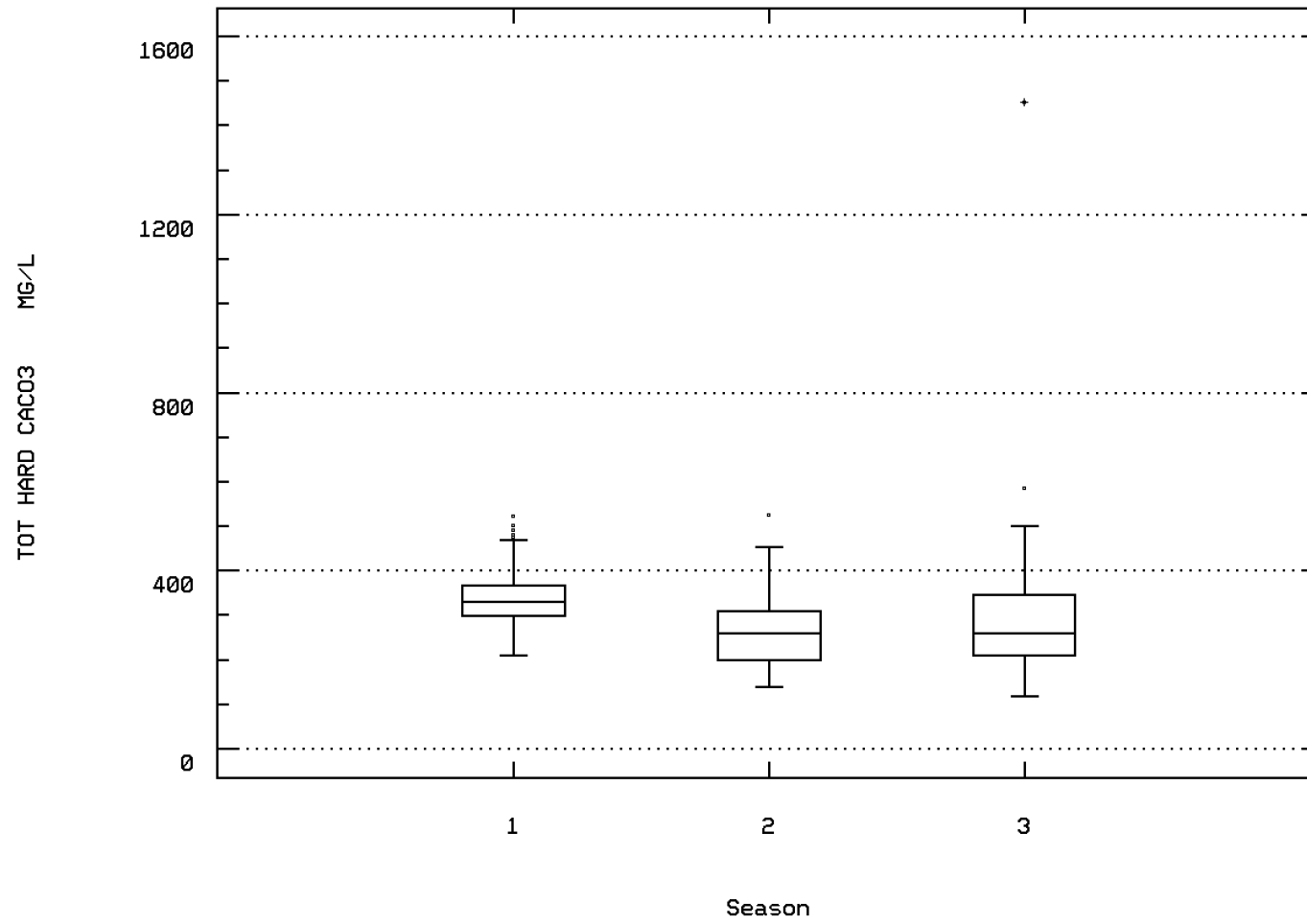
CARBONATE ION (MG/L AS CO3)



BIGHORN R AT KANE WYO

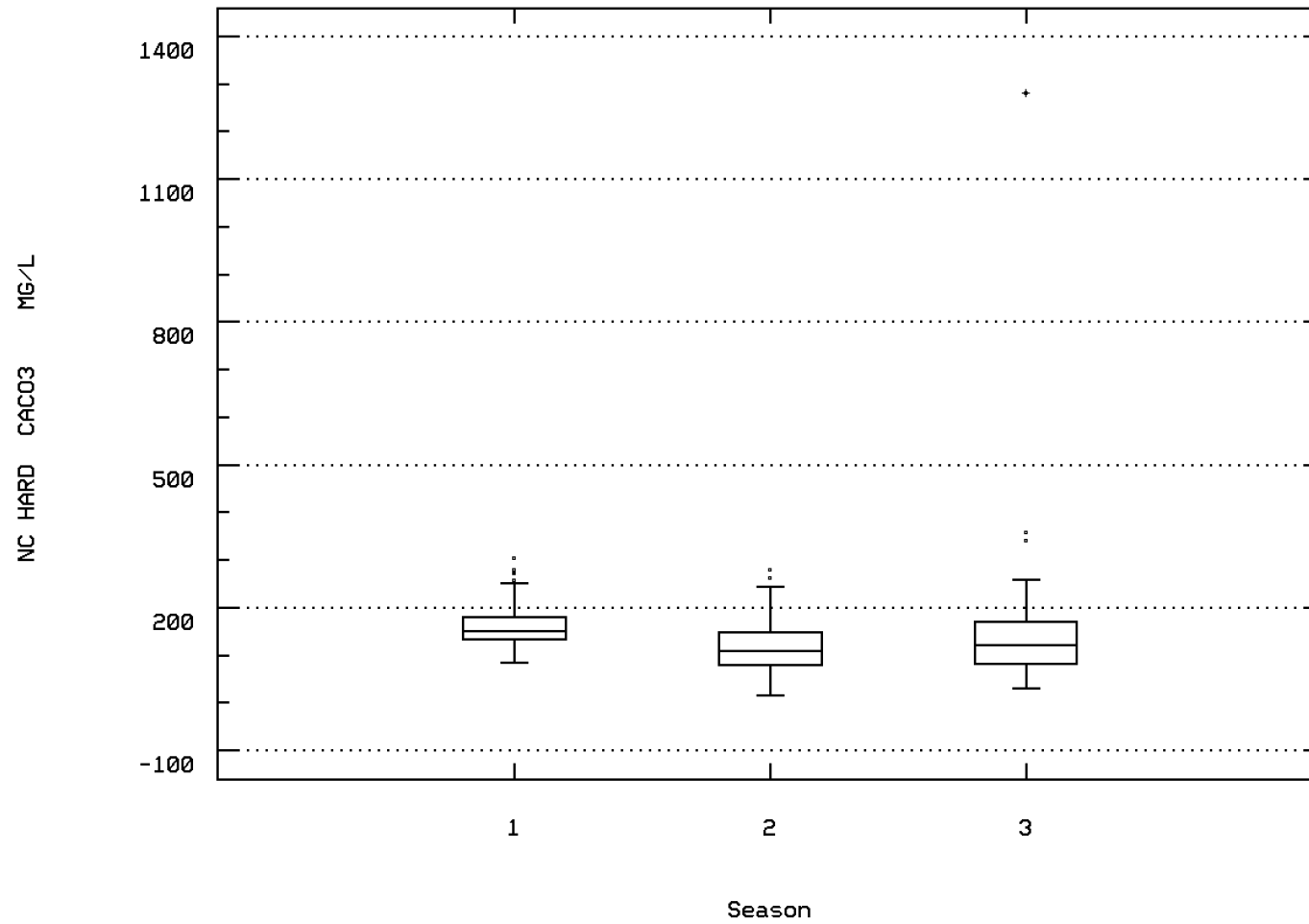
Station: BICA0002 Parameter Code: 00900

HARDNESS, TOTAL (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

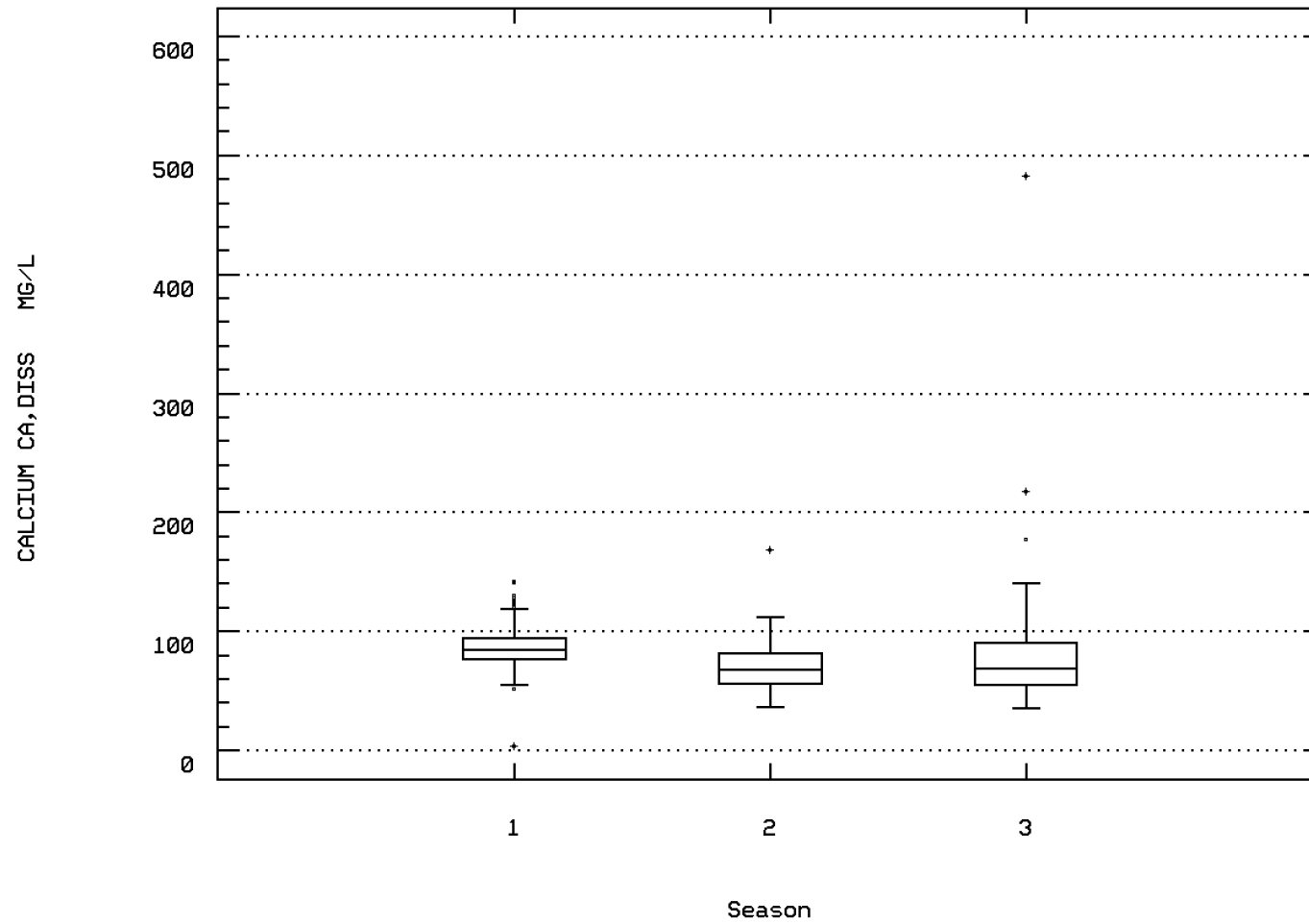
Station: BICA0002 Parameter Code: 00902
HARDNESS, NON-CARBONATE (MG/L AS CaCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00915

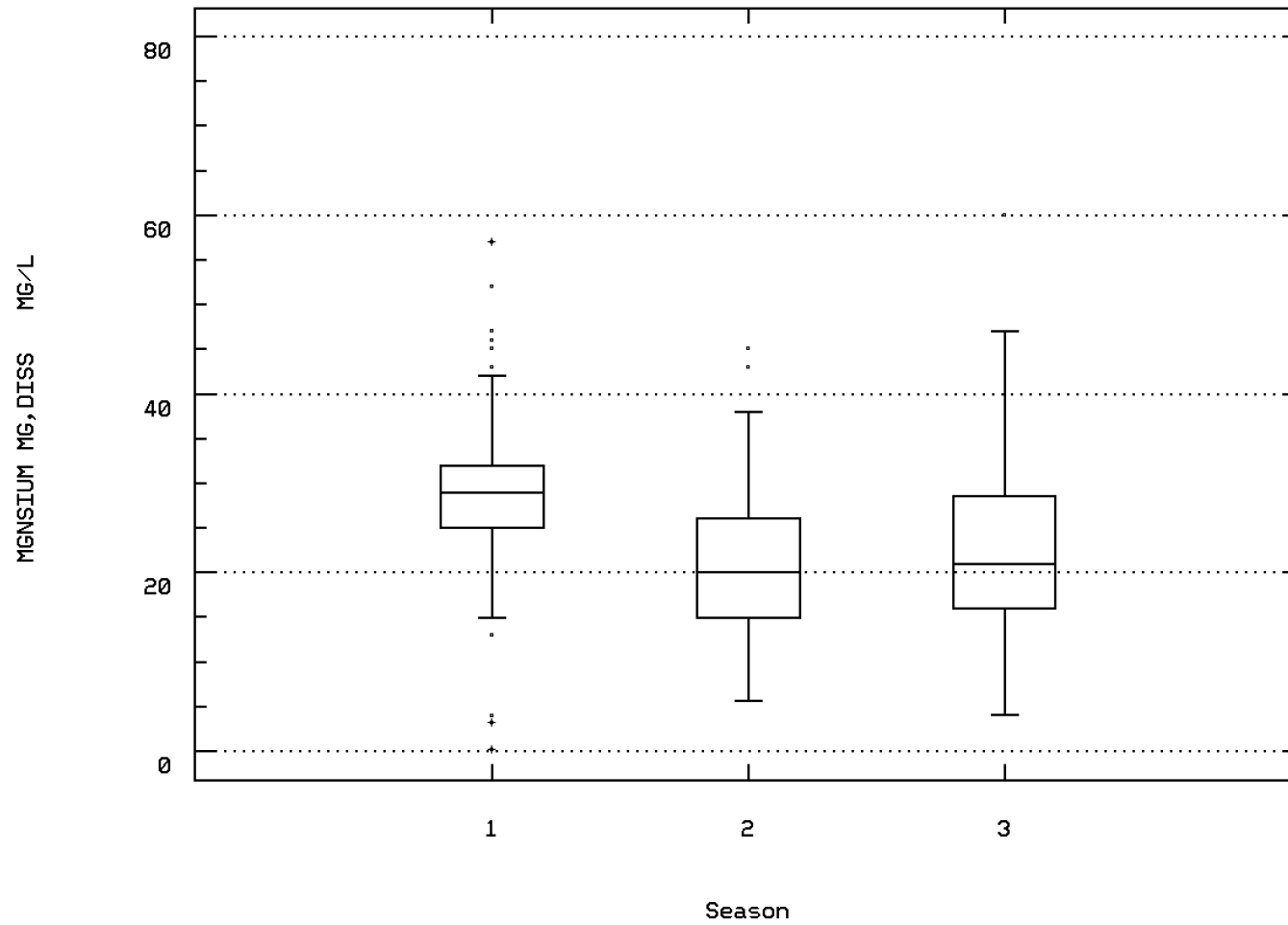
CALCIUM, DISSOLVED (MG/L AS CA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00925

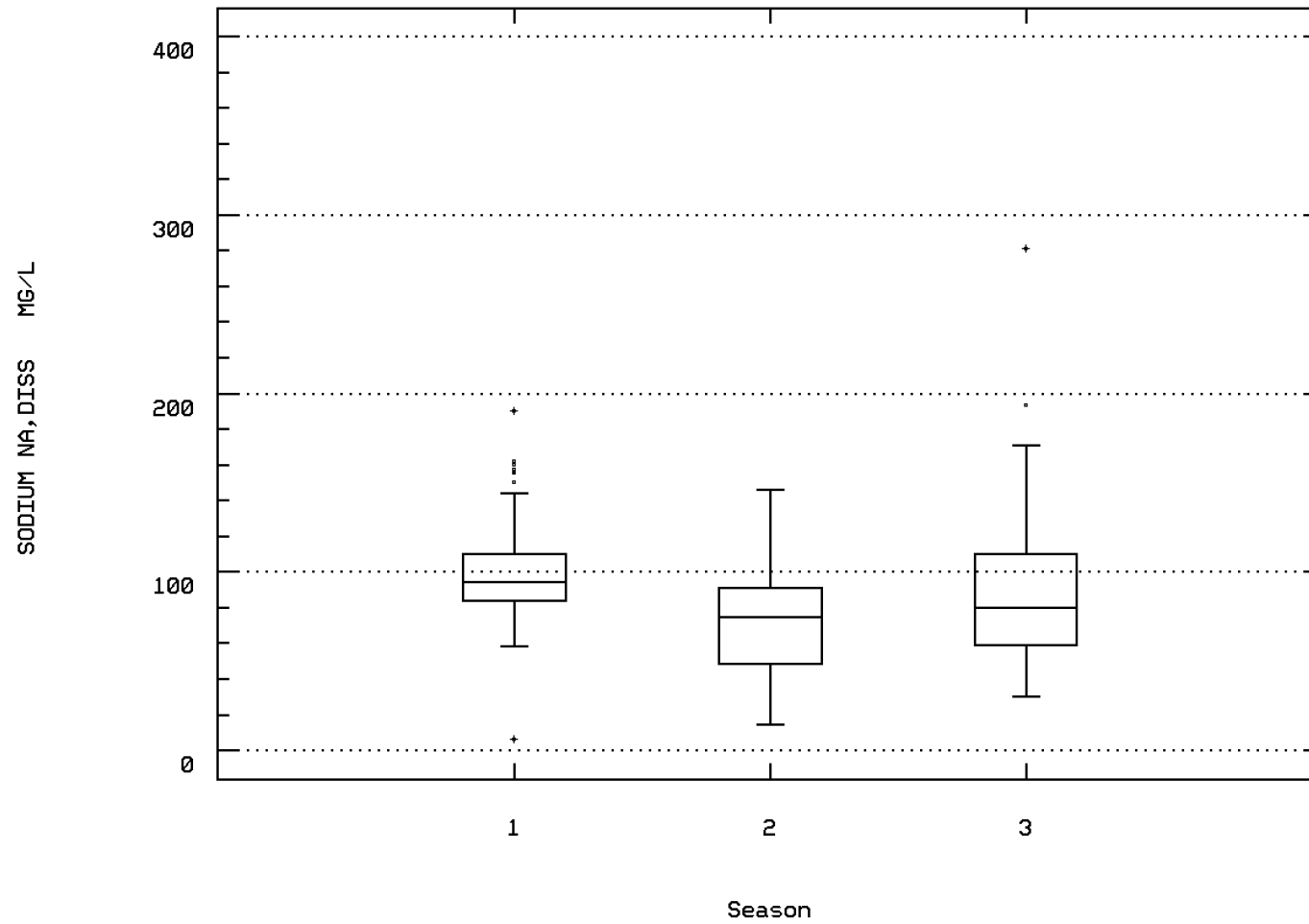
MAGNESIUM, DISSOLVED (MG/L AS MG)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00930

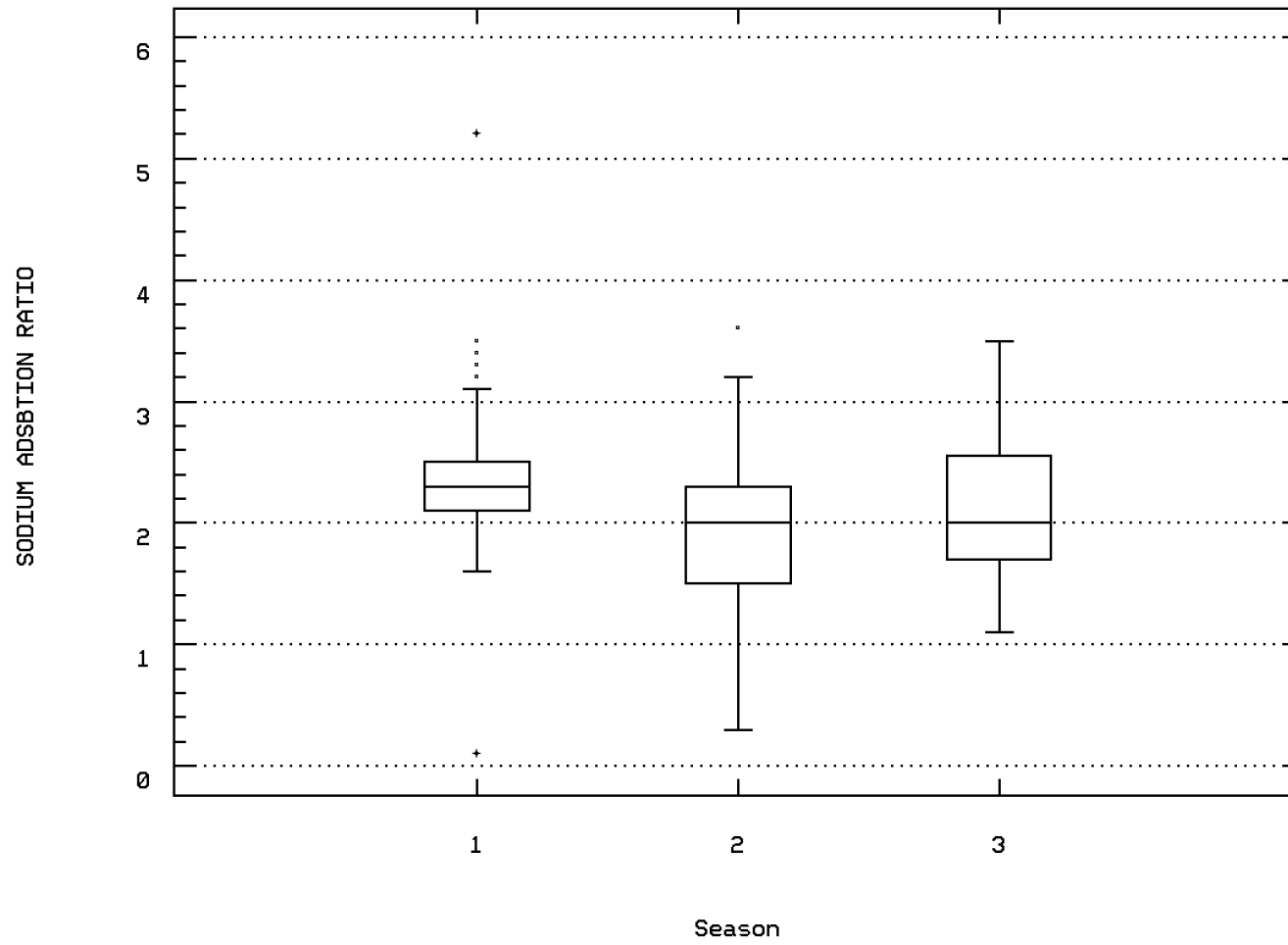
SODIUM, DISSOLVED (MG/L AS NA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00931

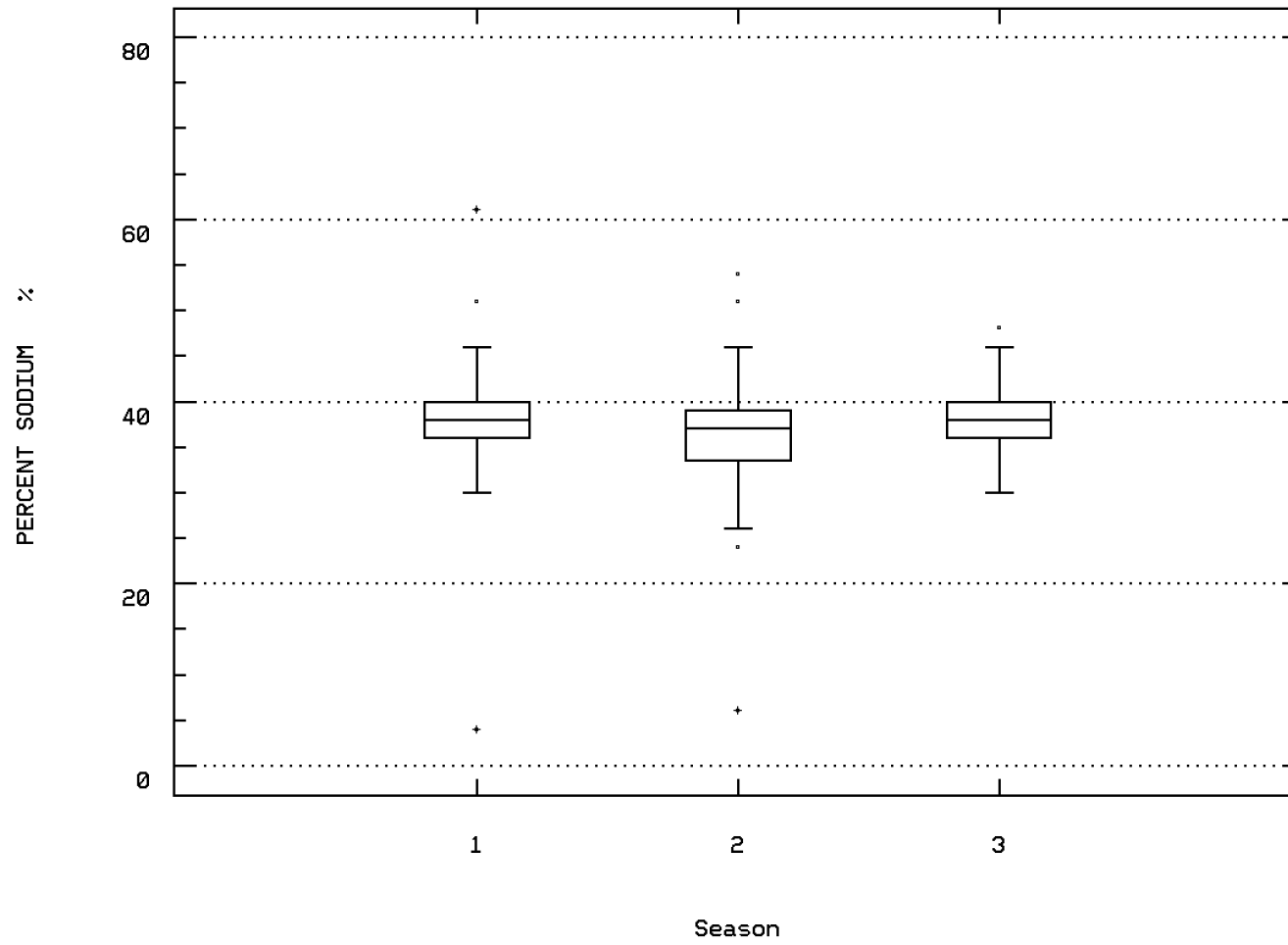
SODIUM ADSORPTION RATIO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00932

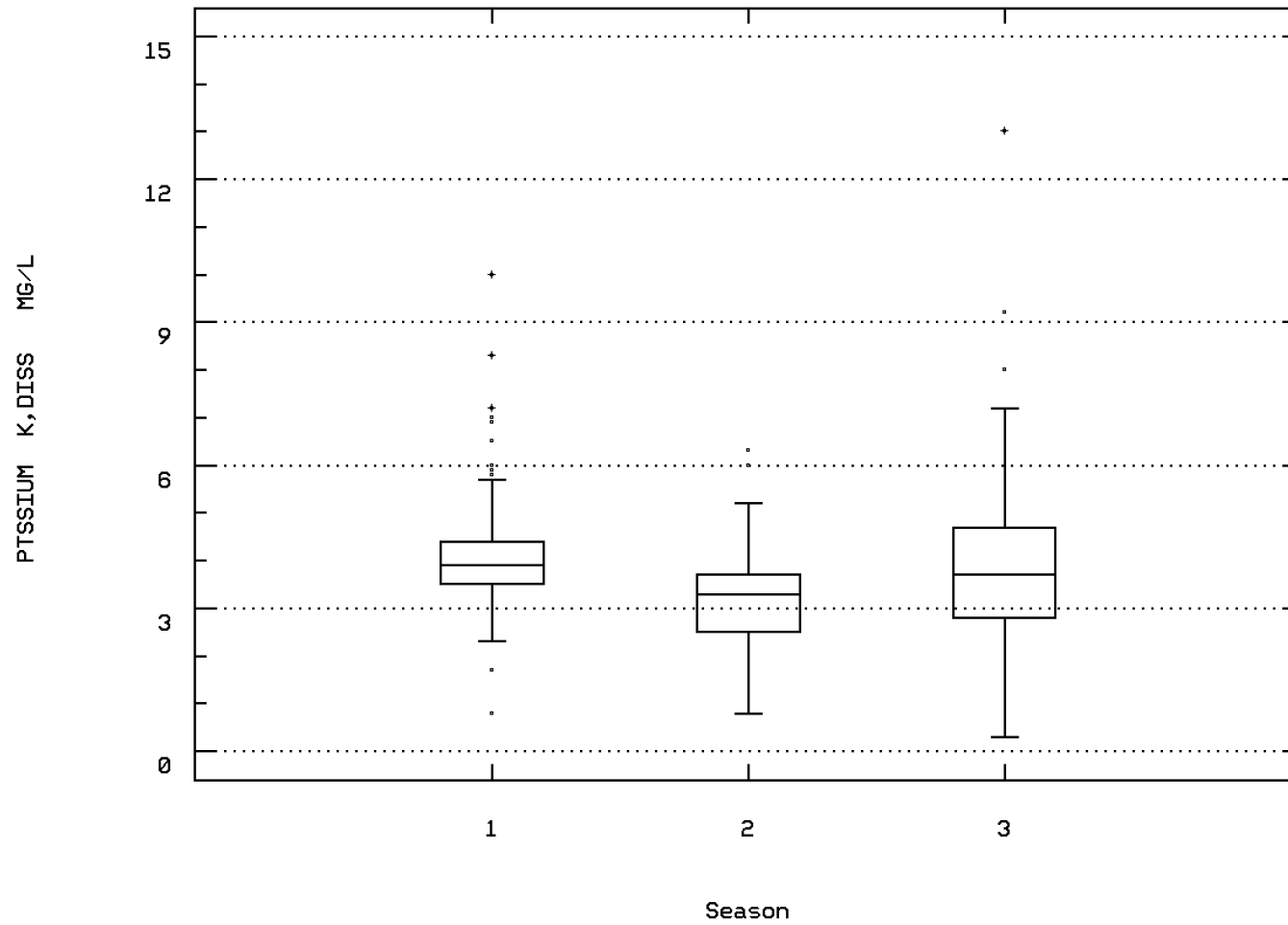
SODIUM, PERCENT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00935

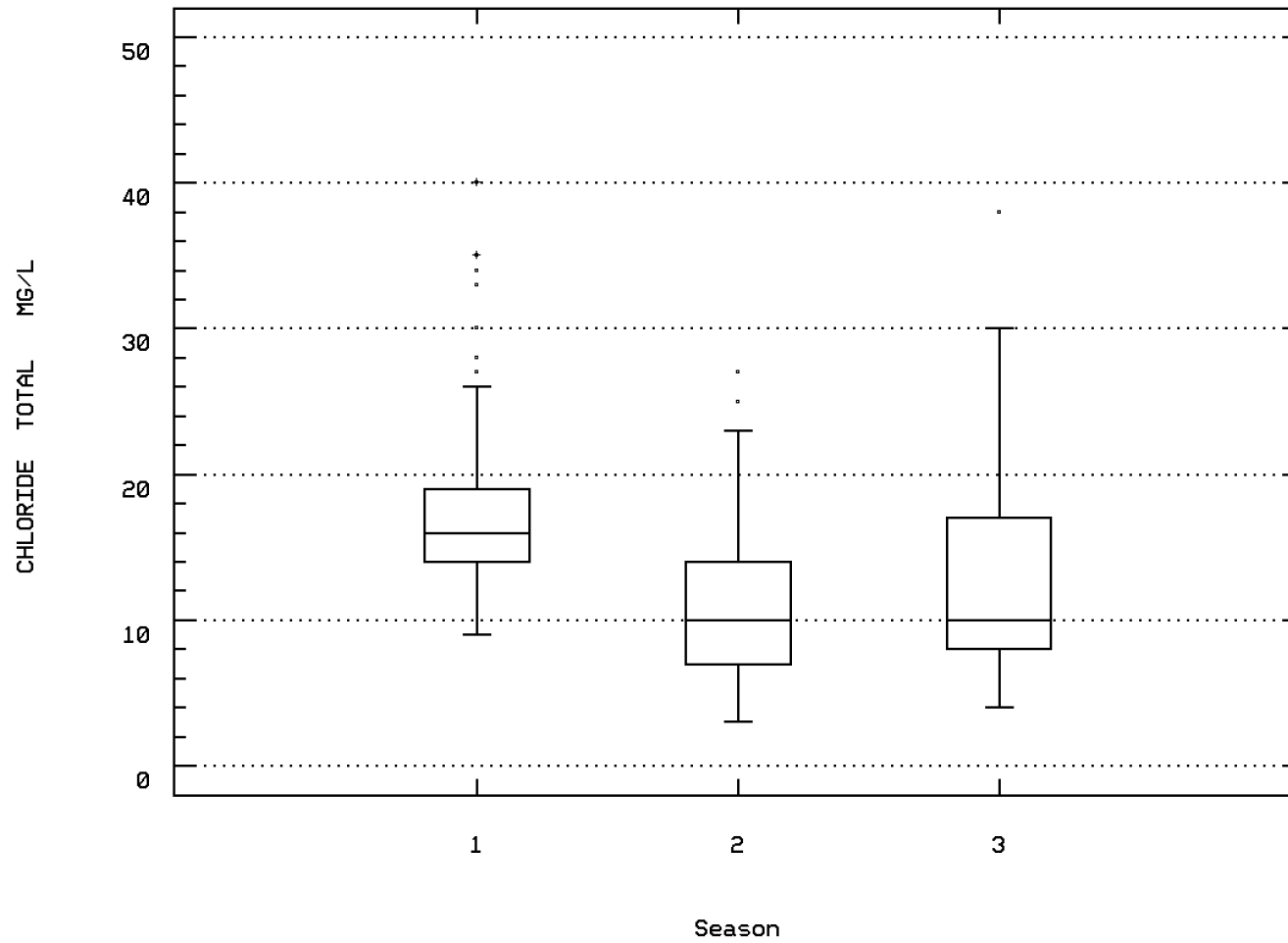
POTASSIUM, DISSOLVED (MG/L AS K)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00940

CHLORIDE, TOTAL IN WATER

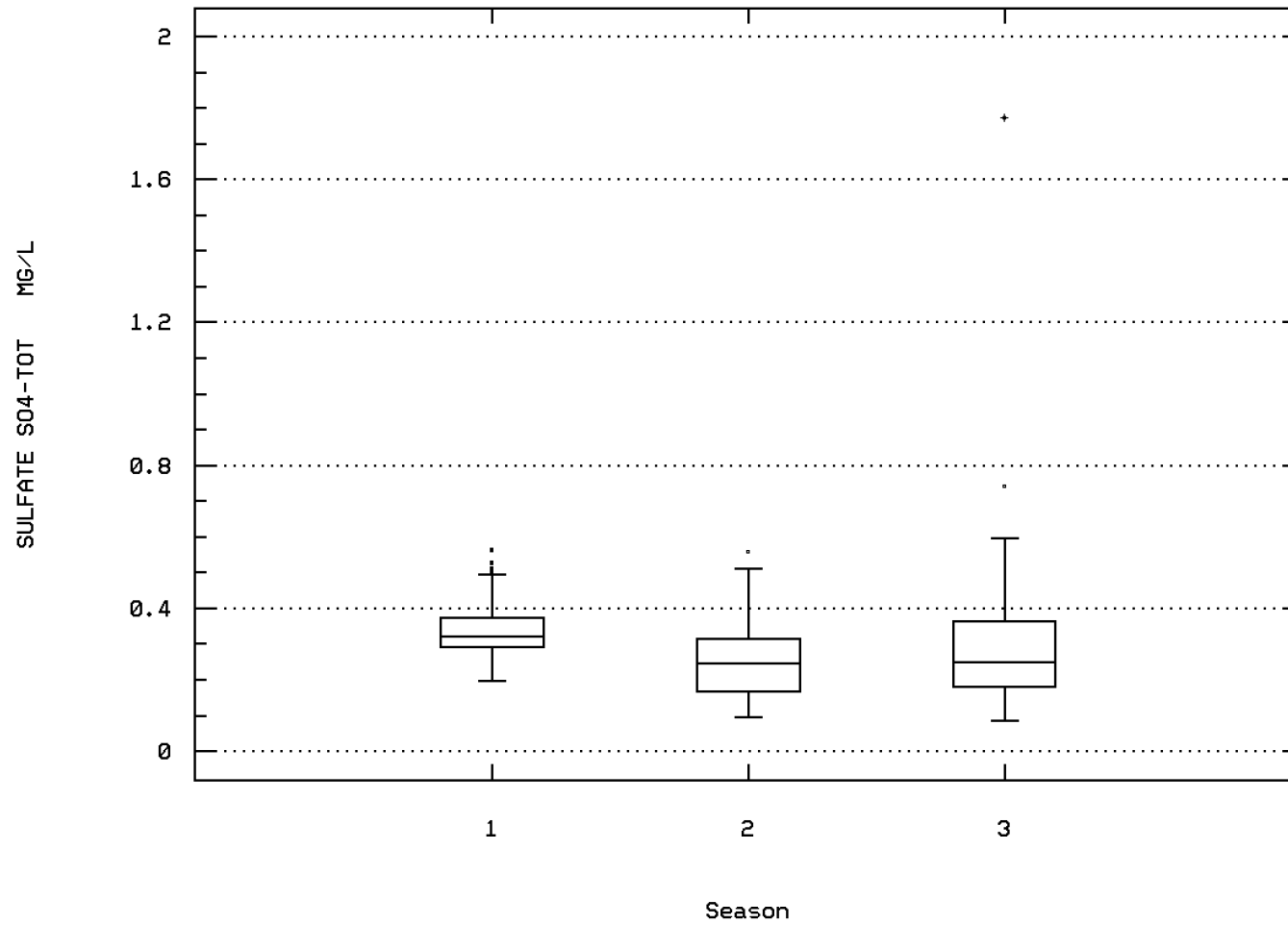


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)

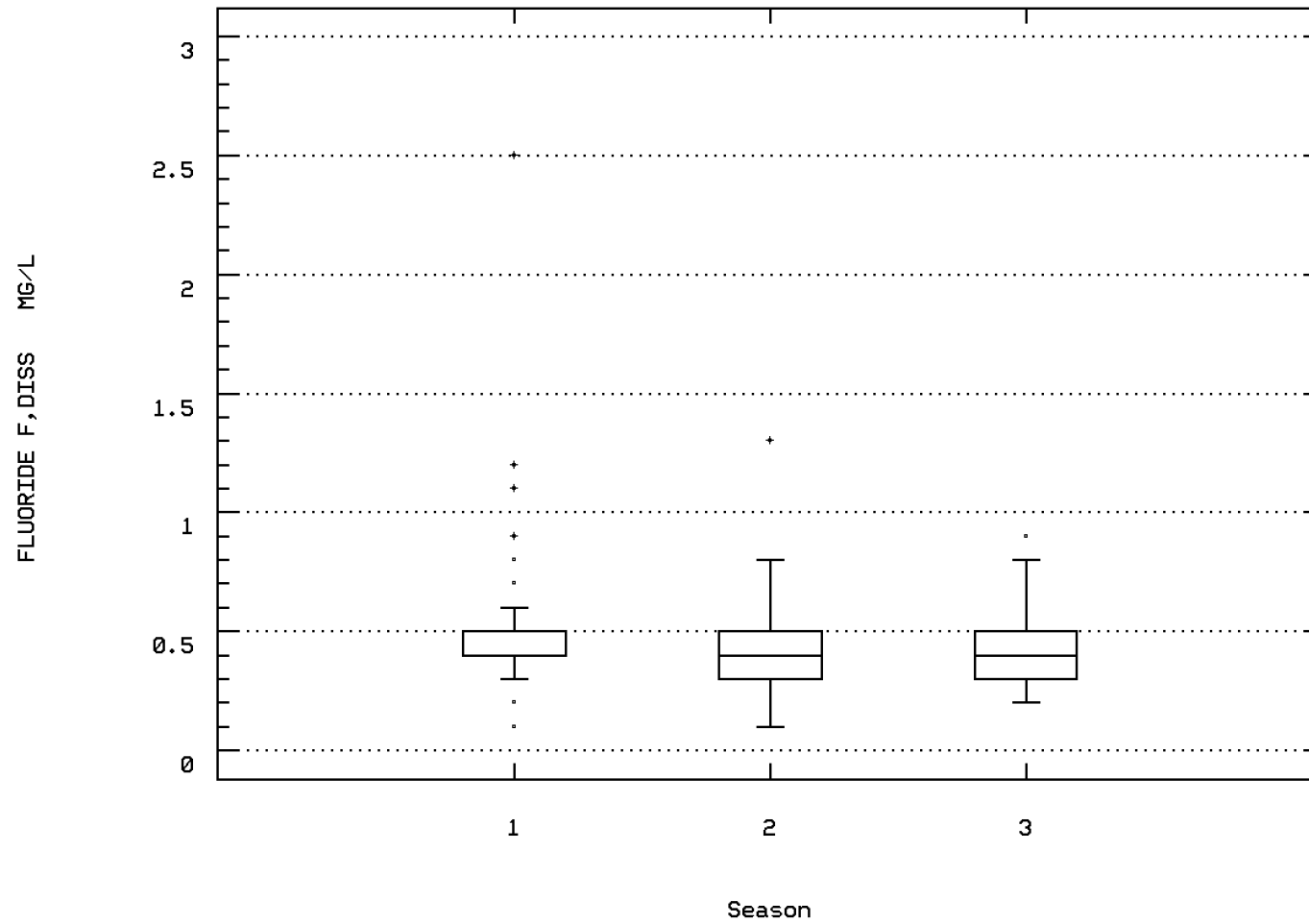
(X 1000)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00950

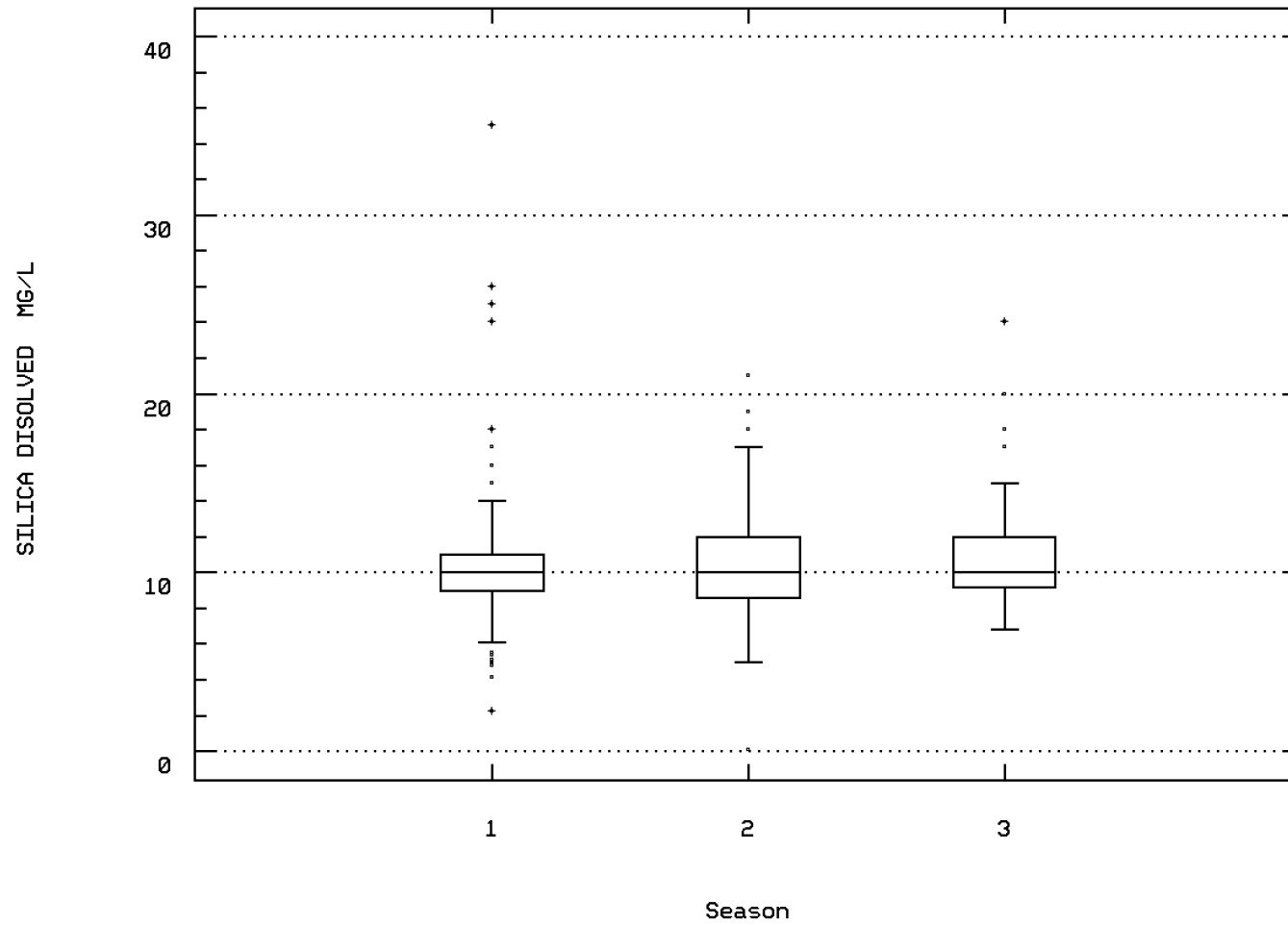
FLUORIDE, DISSOLVED (MG/L AS F)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00955

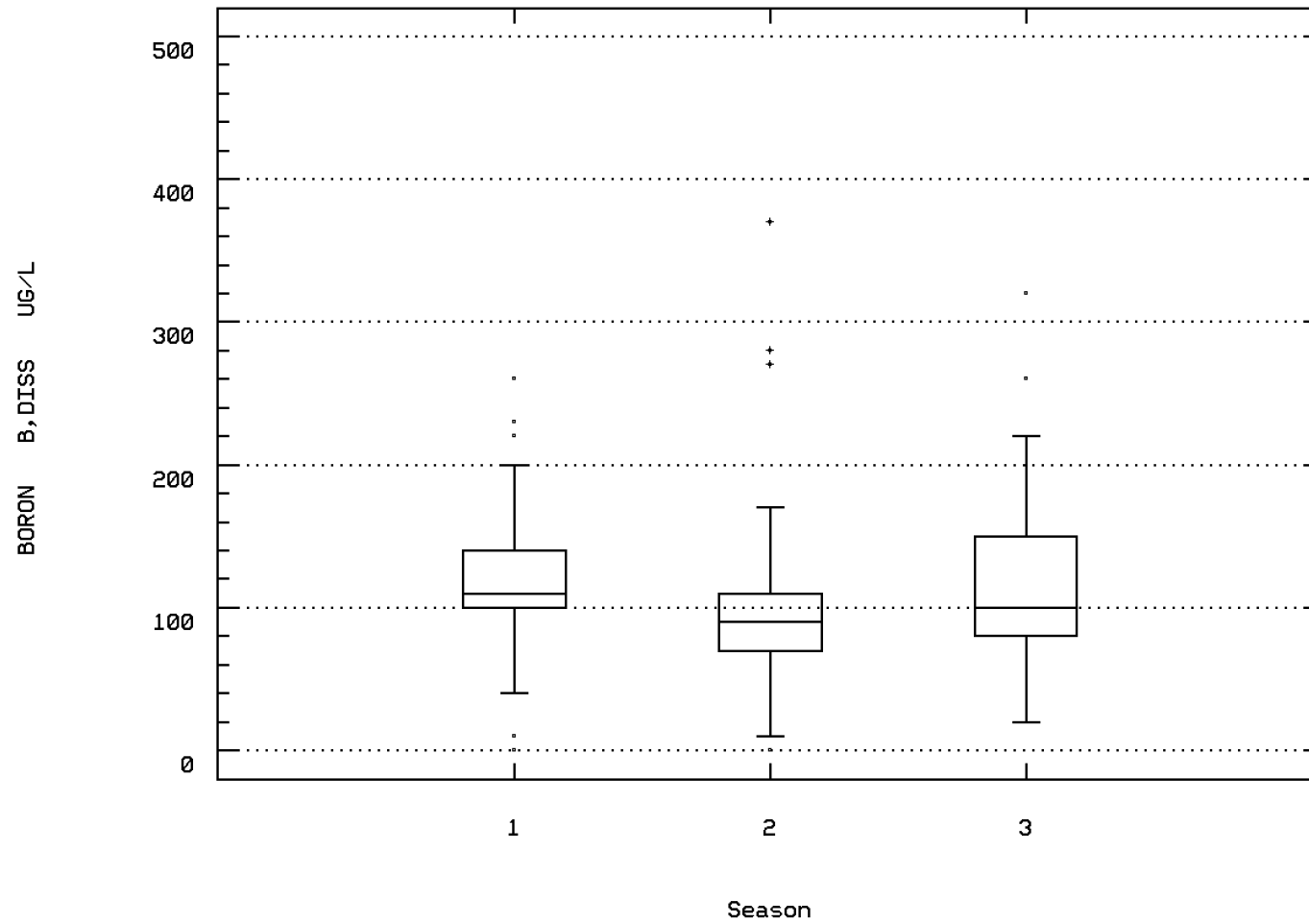
SILICA, DISSOLVED (MG/L AS SI02)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 01020

BORON, DISSOLVED (UG/L AS B)

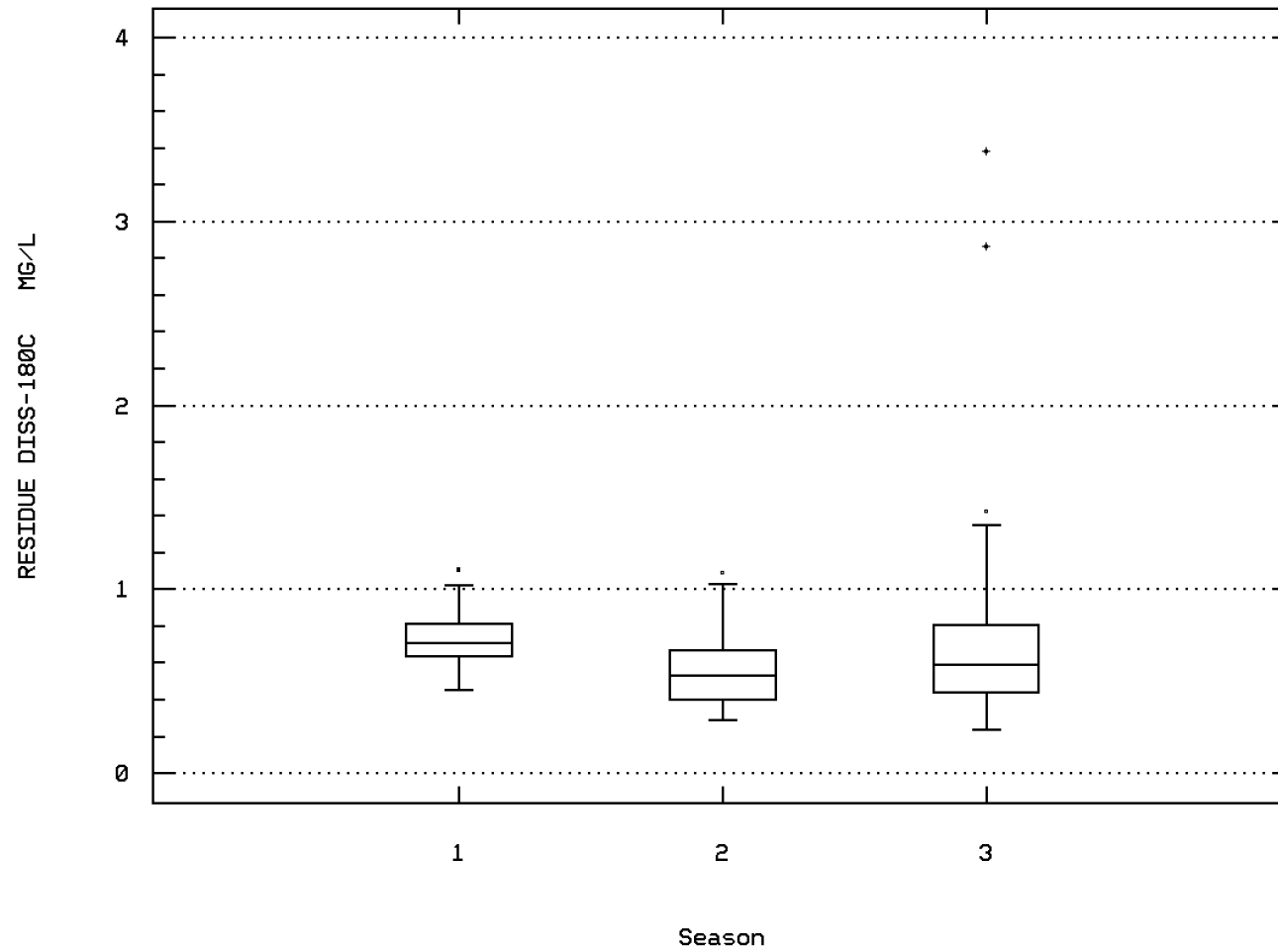


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70300

RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)

(X 1000)

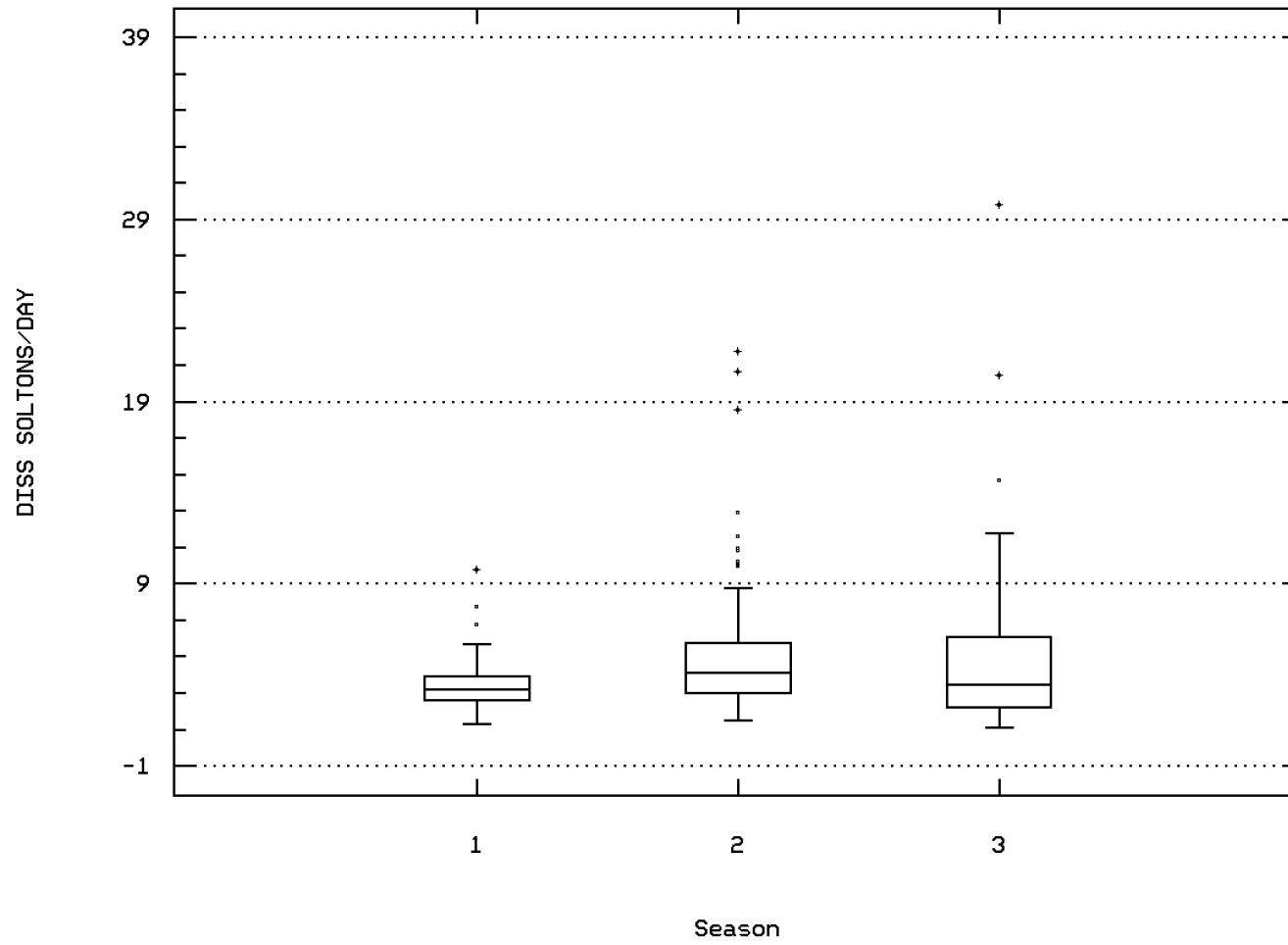


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70302

SOLIDS, DISSOLVED-TONS PER DAY

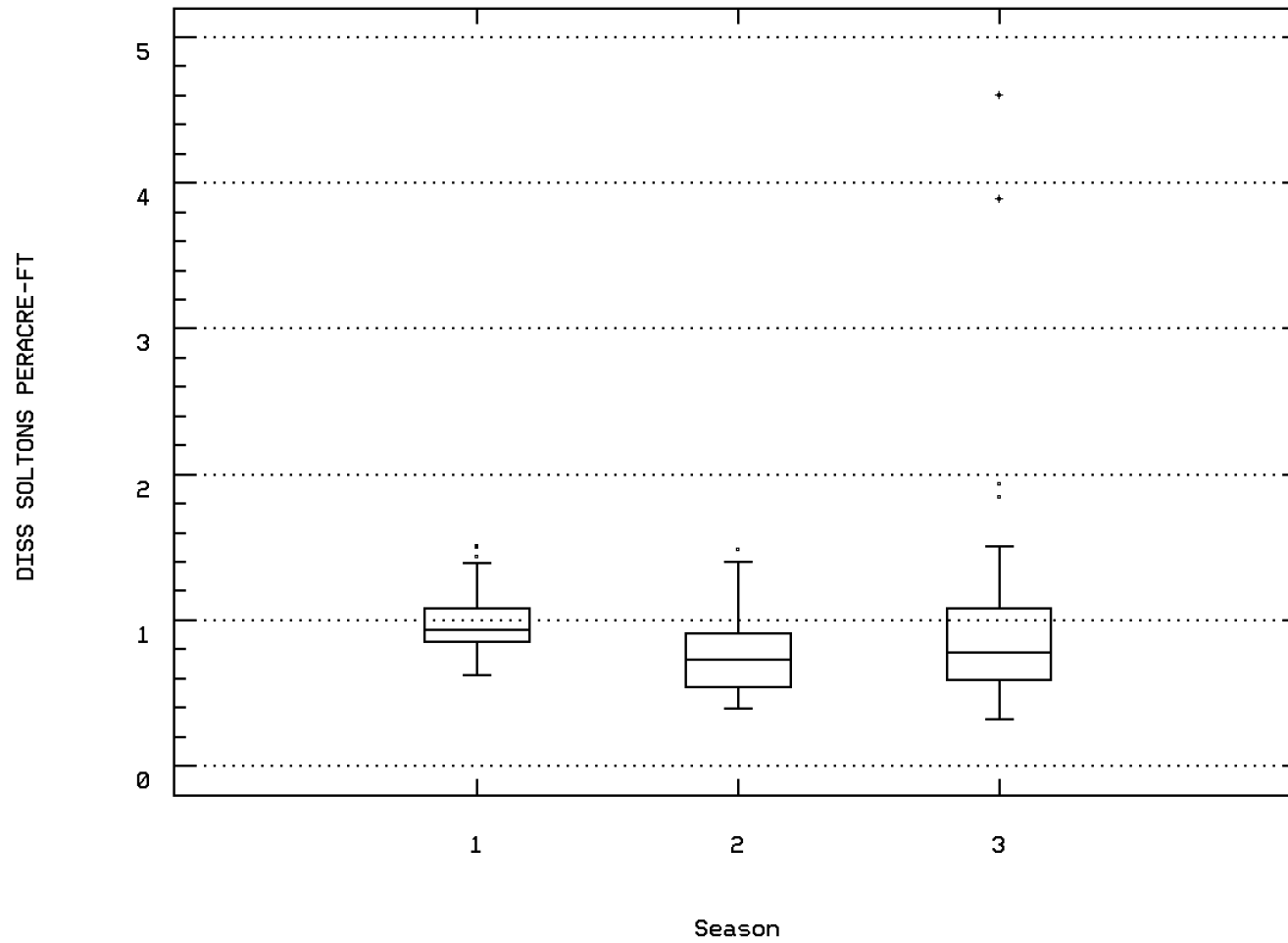
(X 1000)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70303

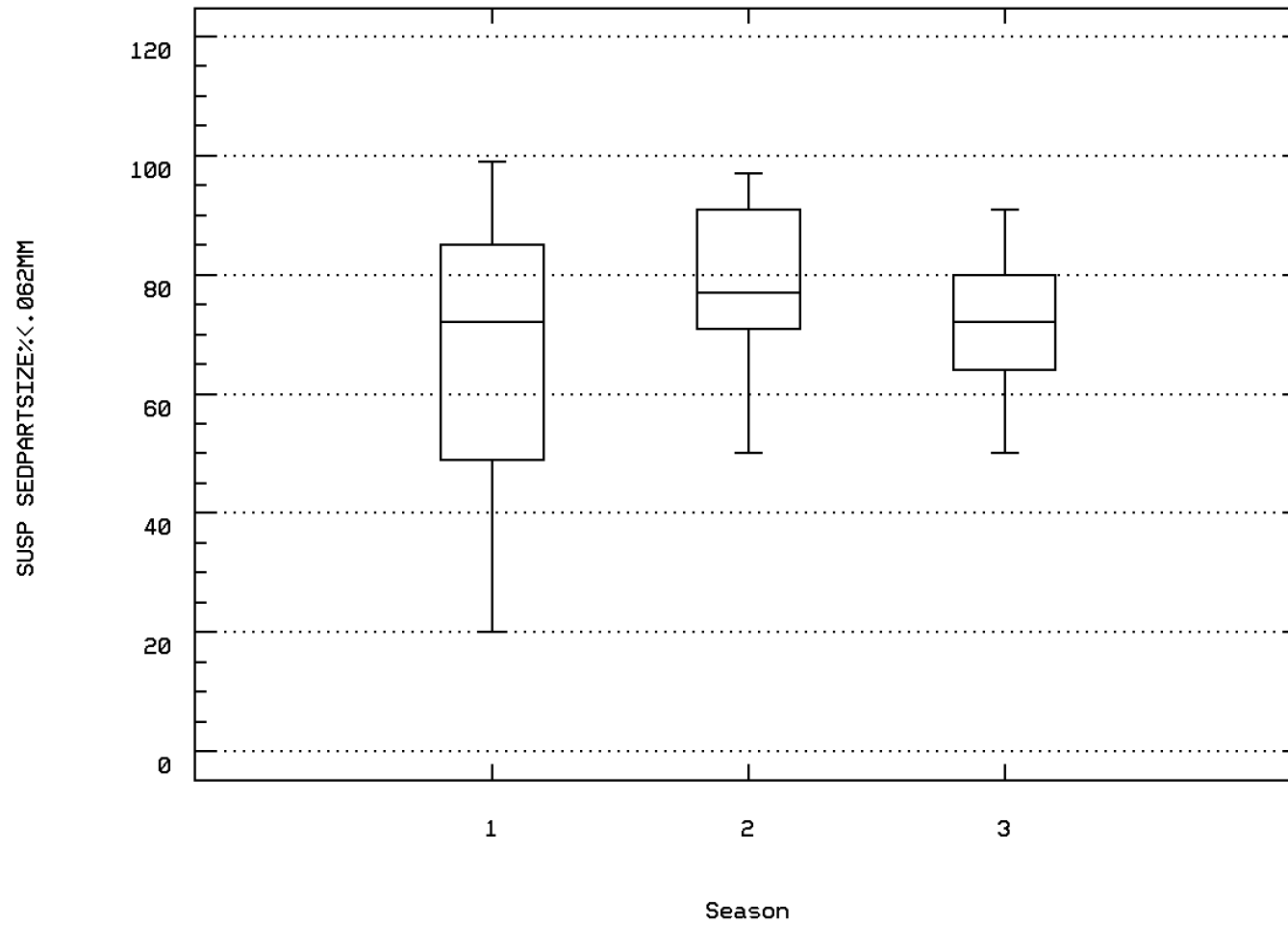
SOLIDS, DISSOLVED-TONS PER ACRE-FT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70331

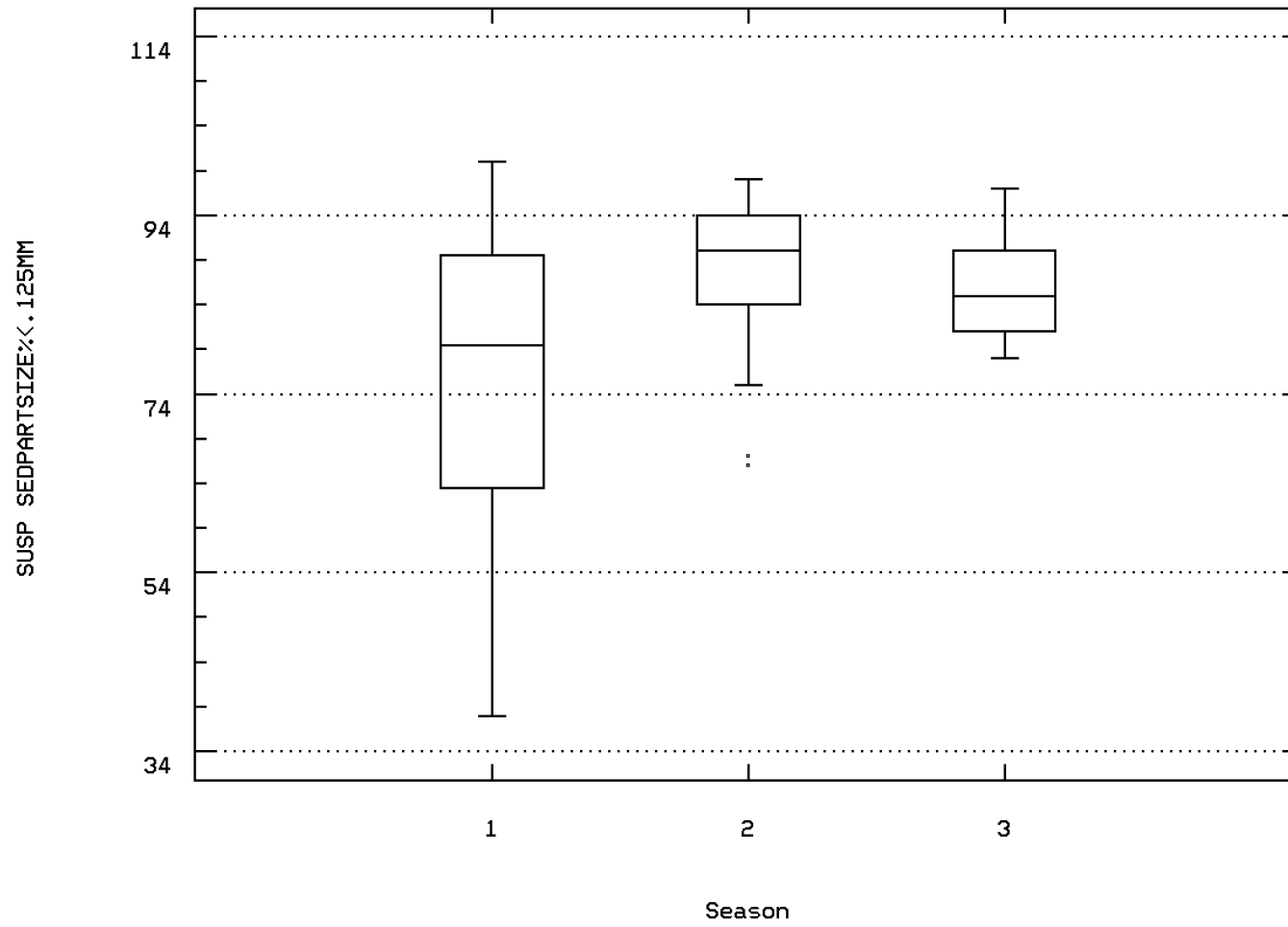
SUSPENDED SED SIEVE DIAMETER,% FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70332

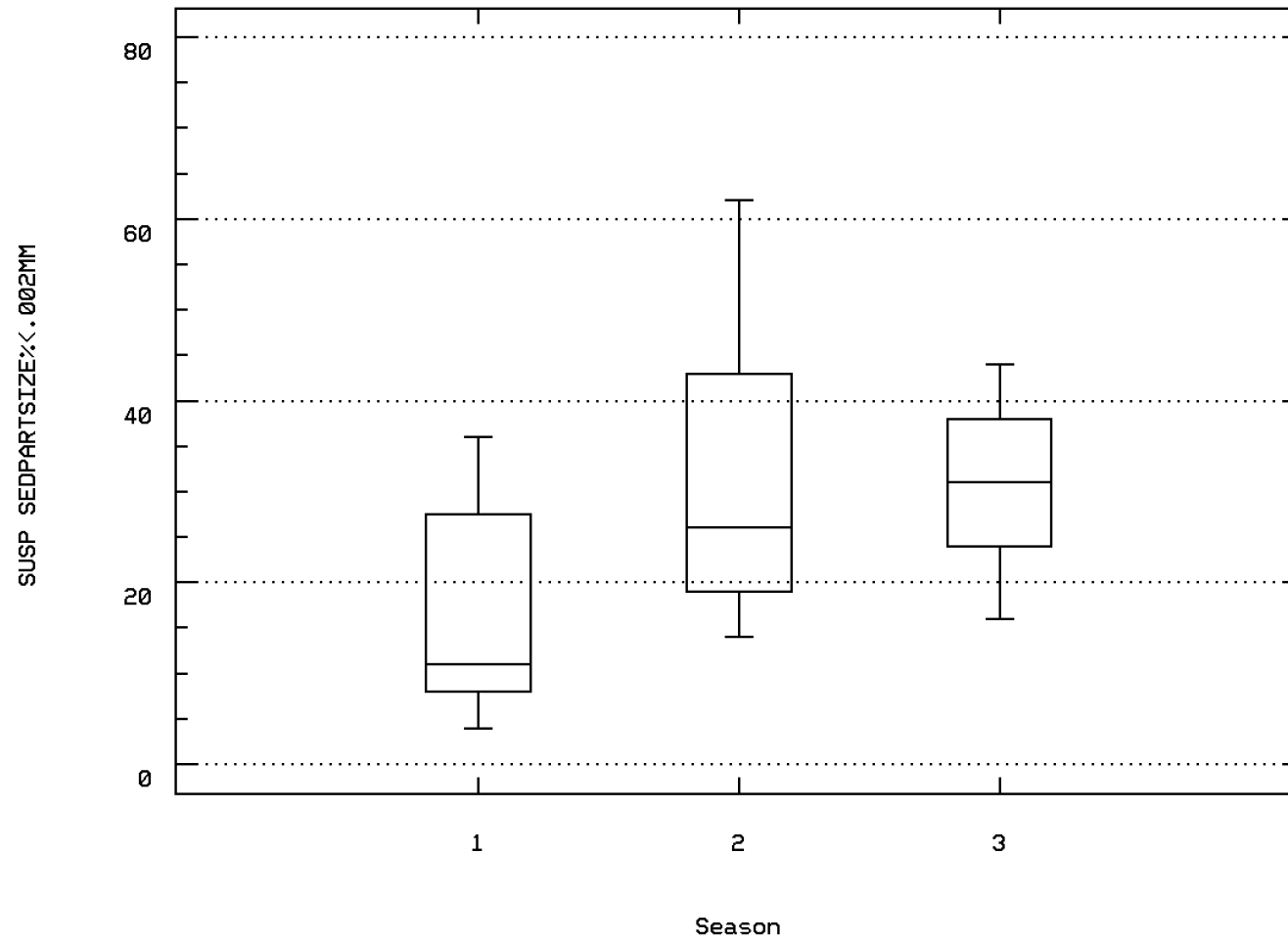
SUSPENDED SED SIEVE DIAMETER,% FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70337

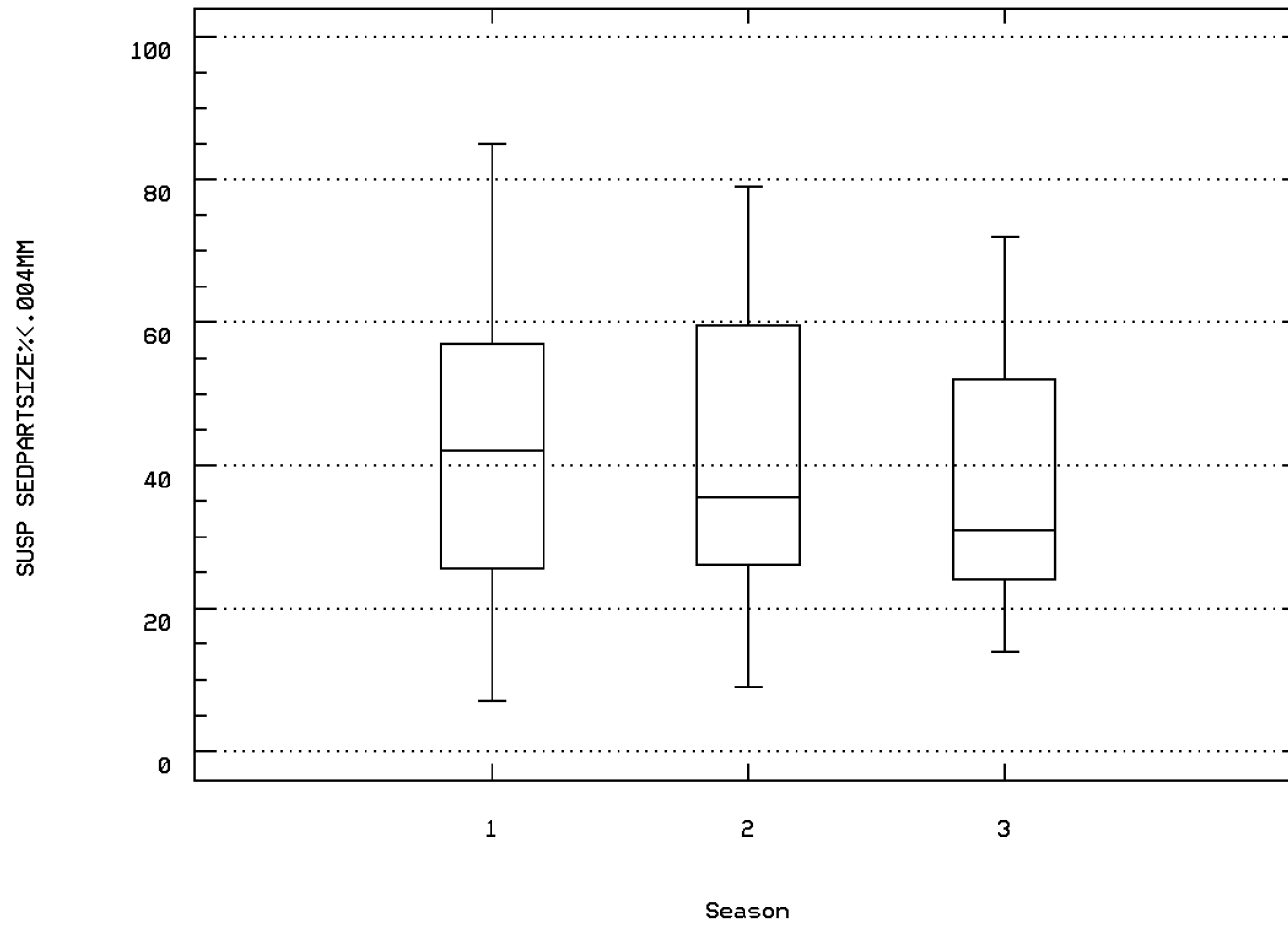
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70338

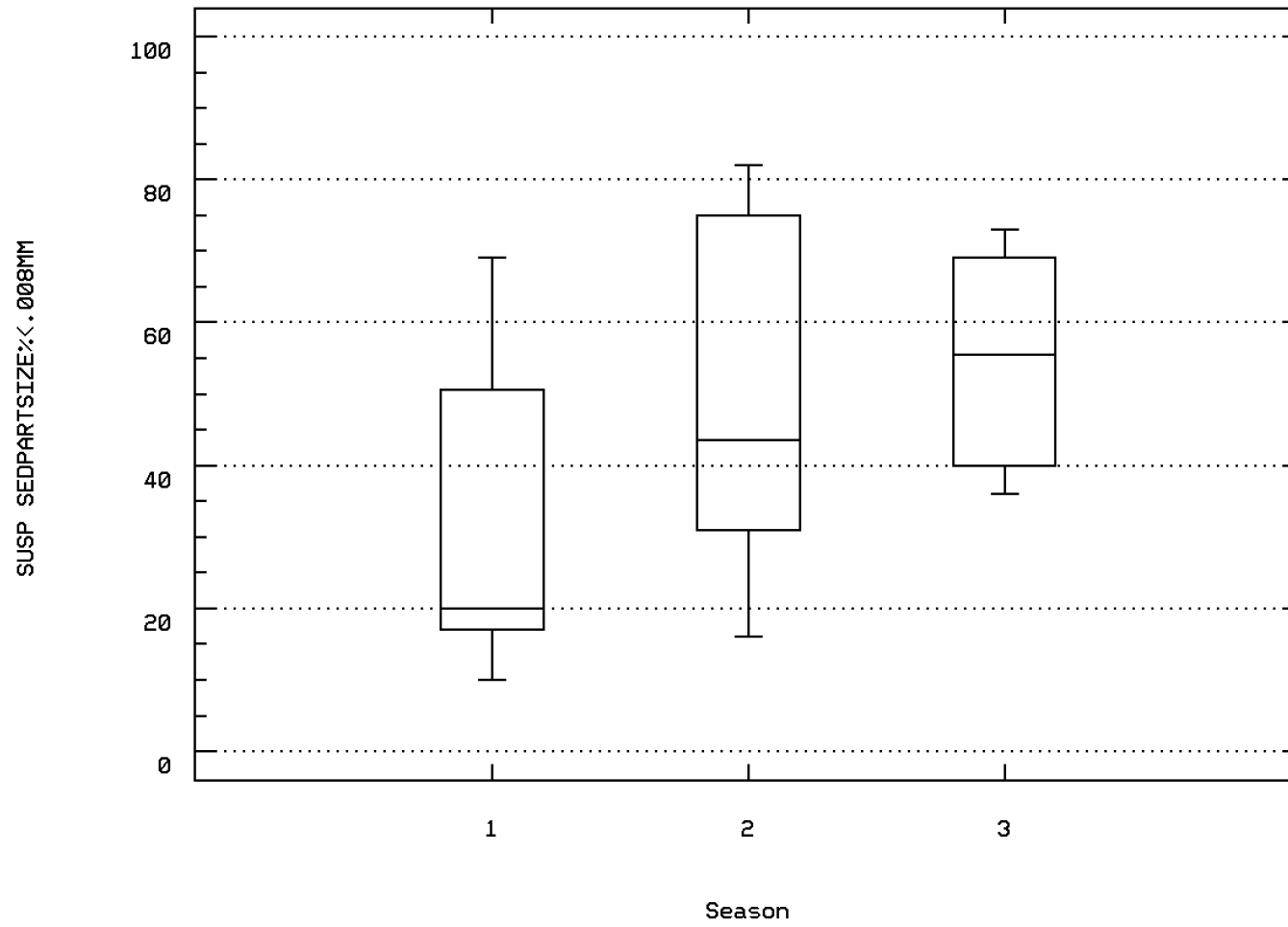
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70339

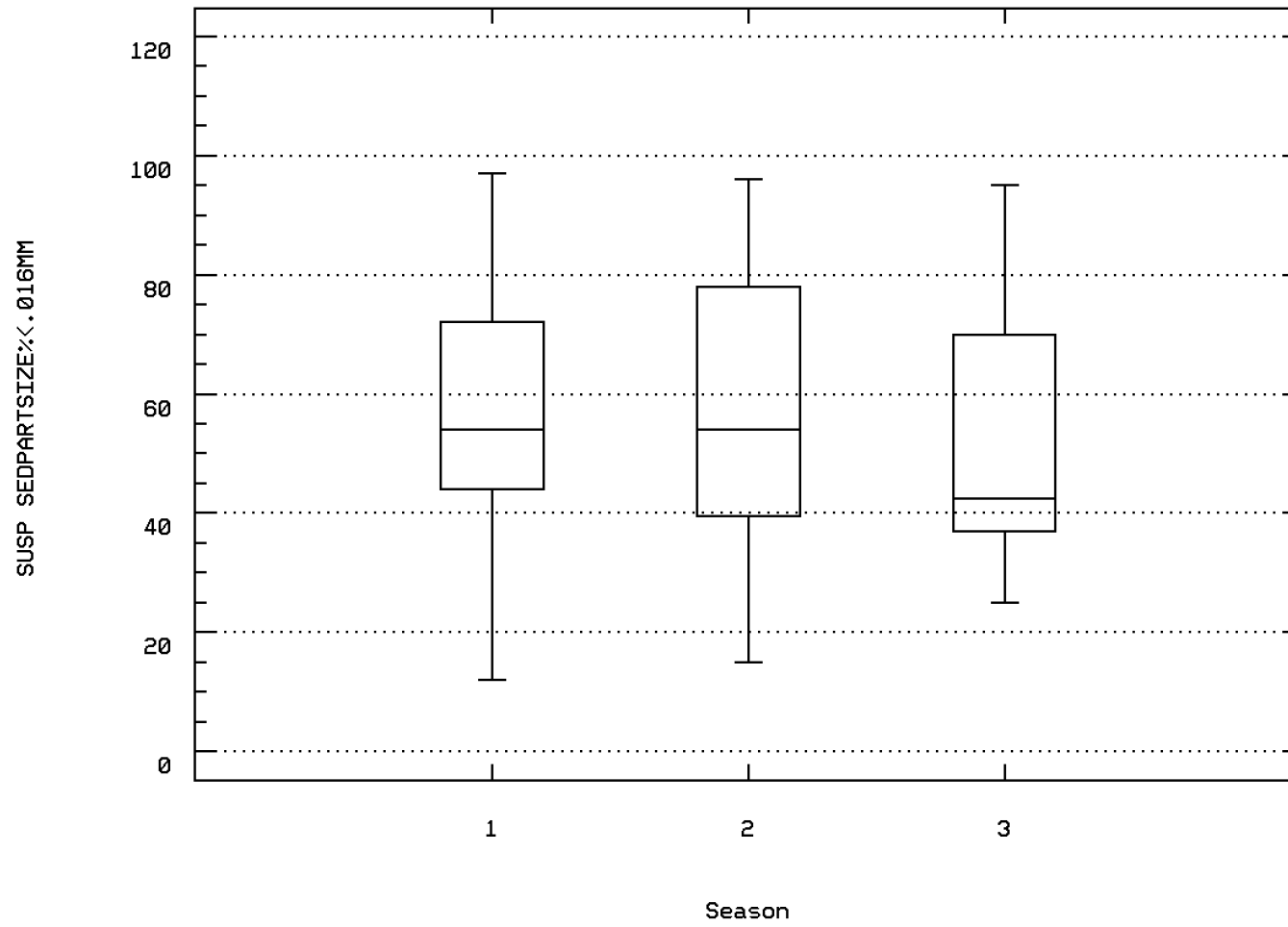
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70340

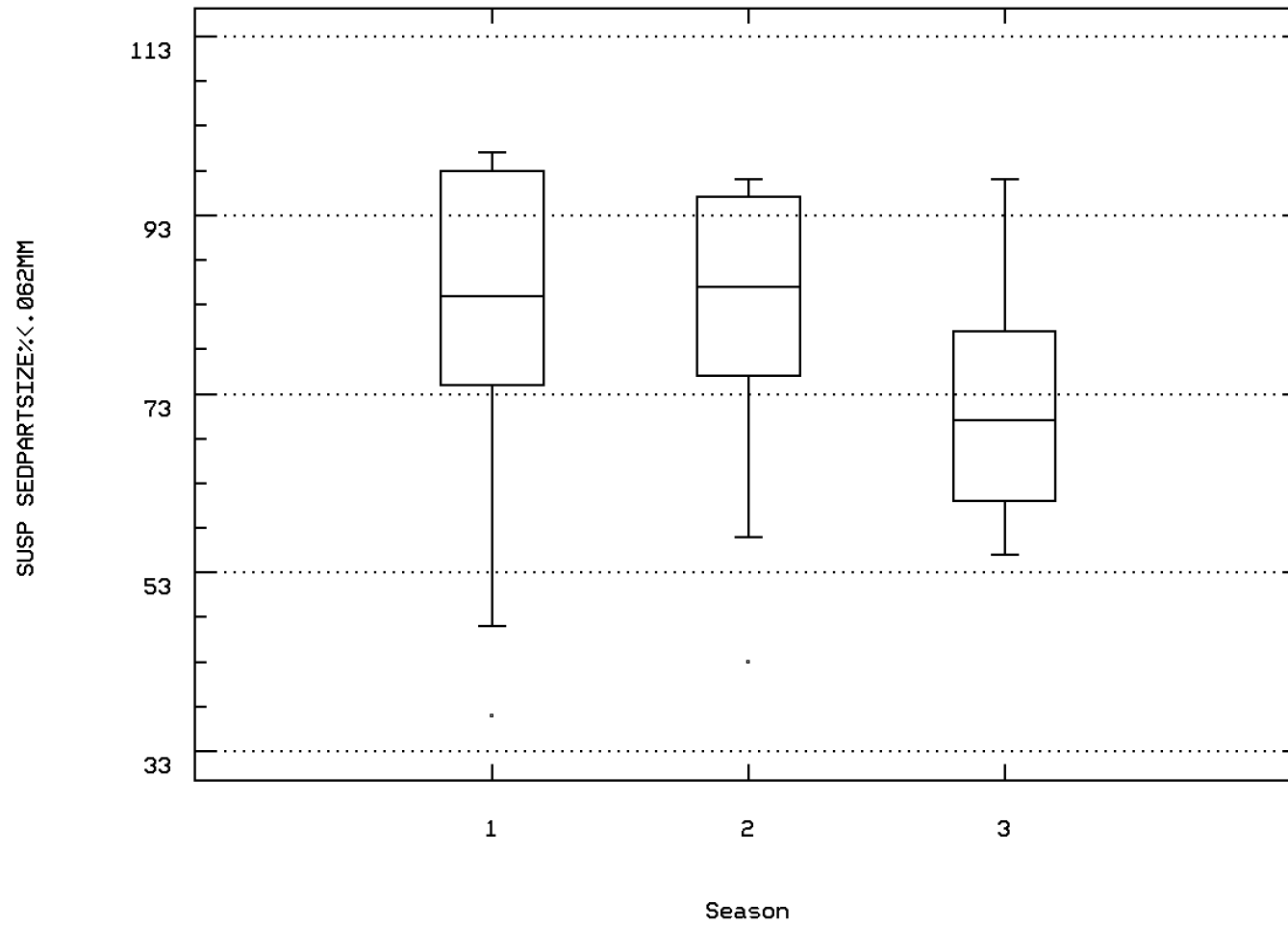
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70342

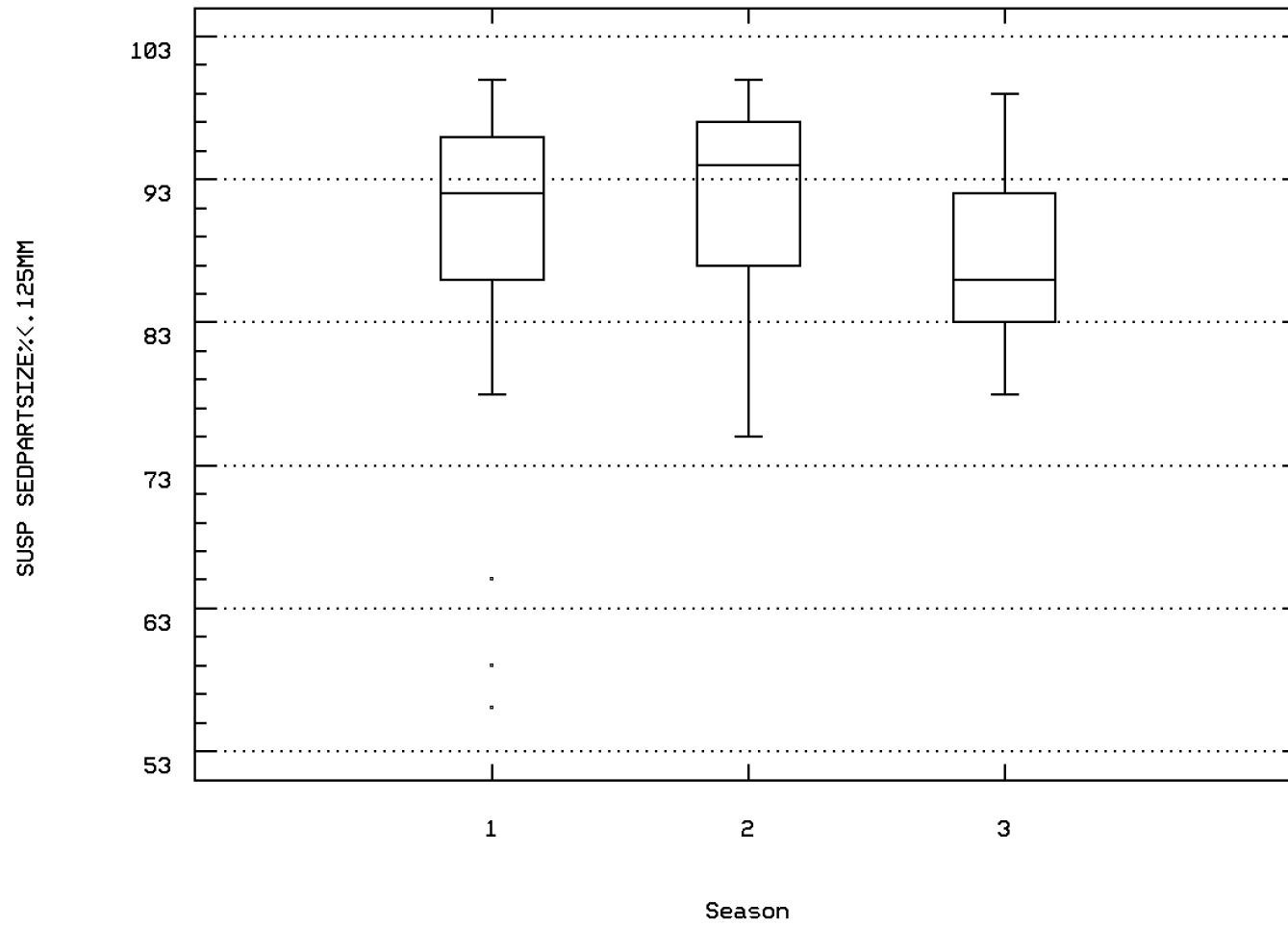
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70343

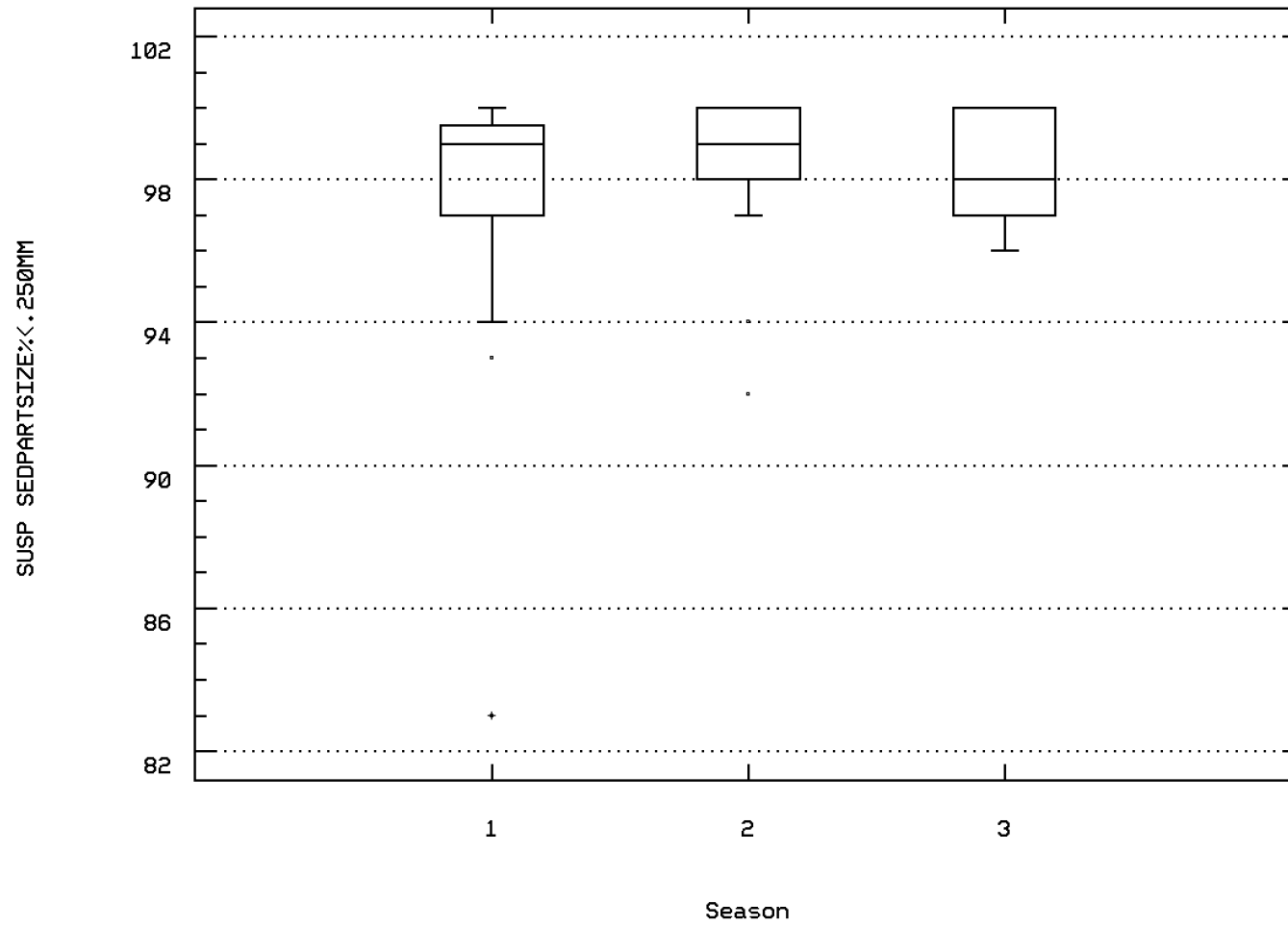
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70344

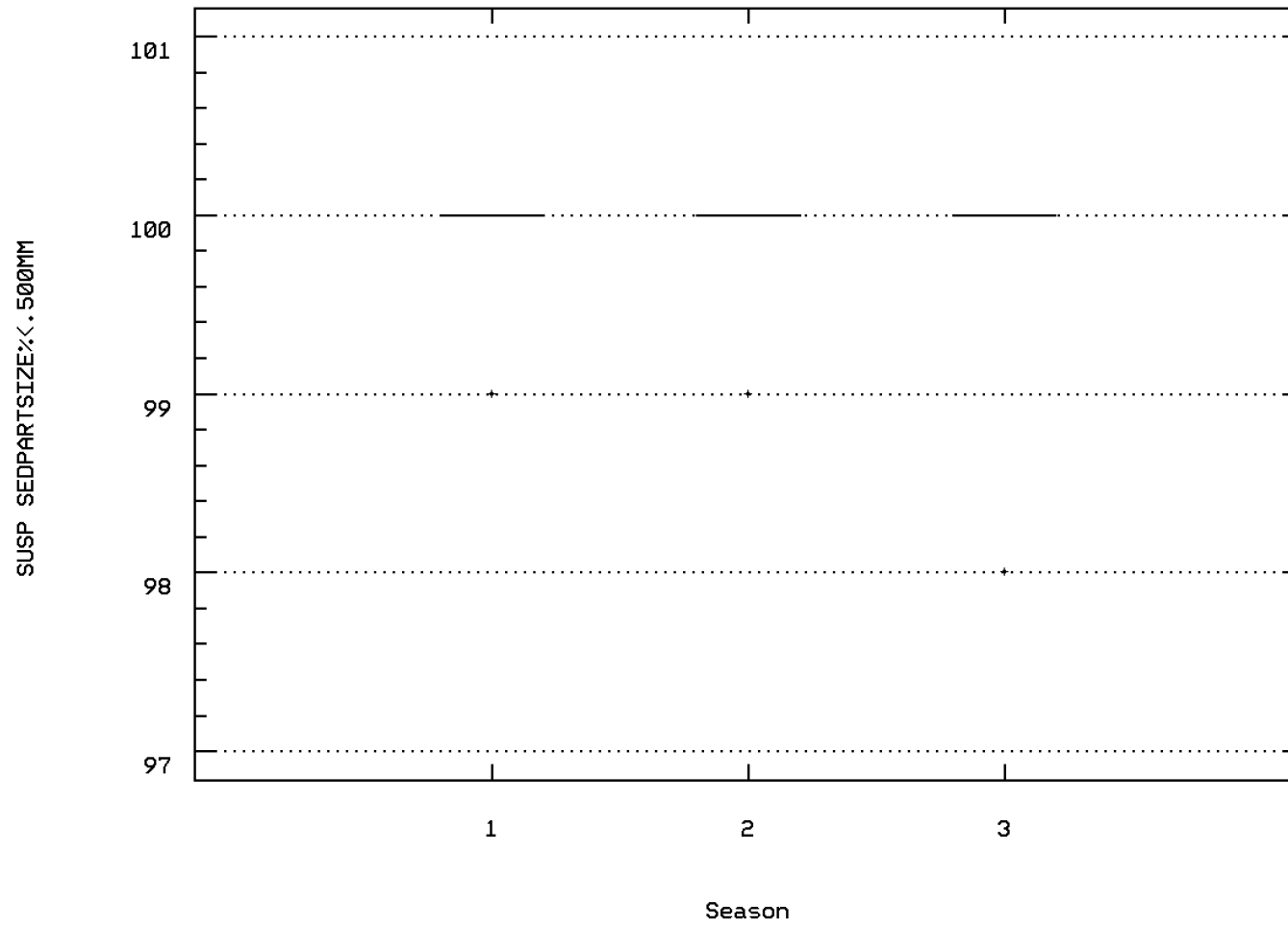
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70345

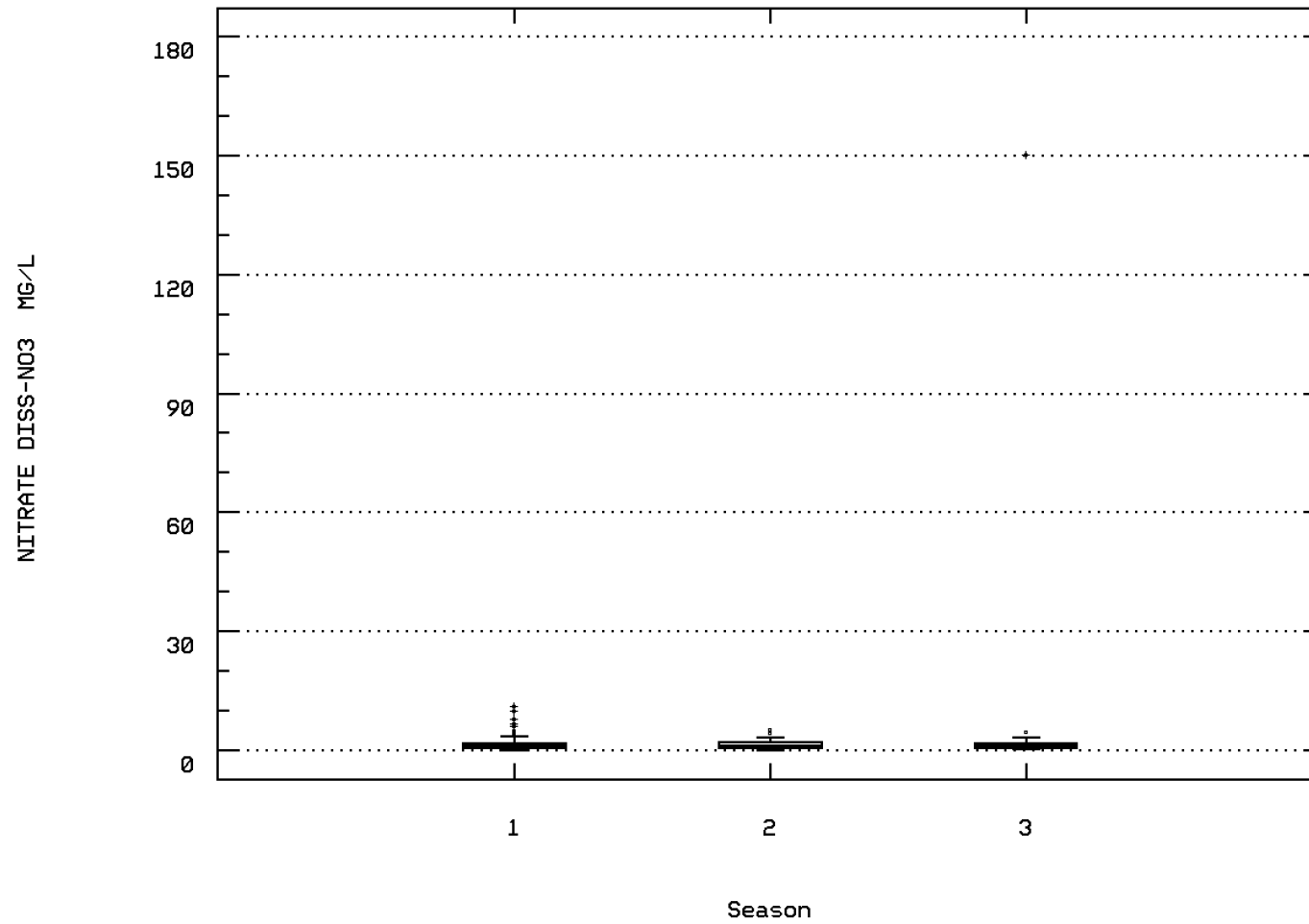
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 71851

NITRATE NITROGEN, DISSOLVED (MG/L AS NO

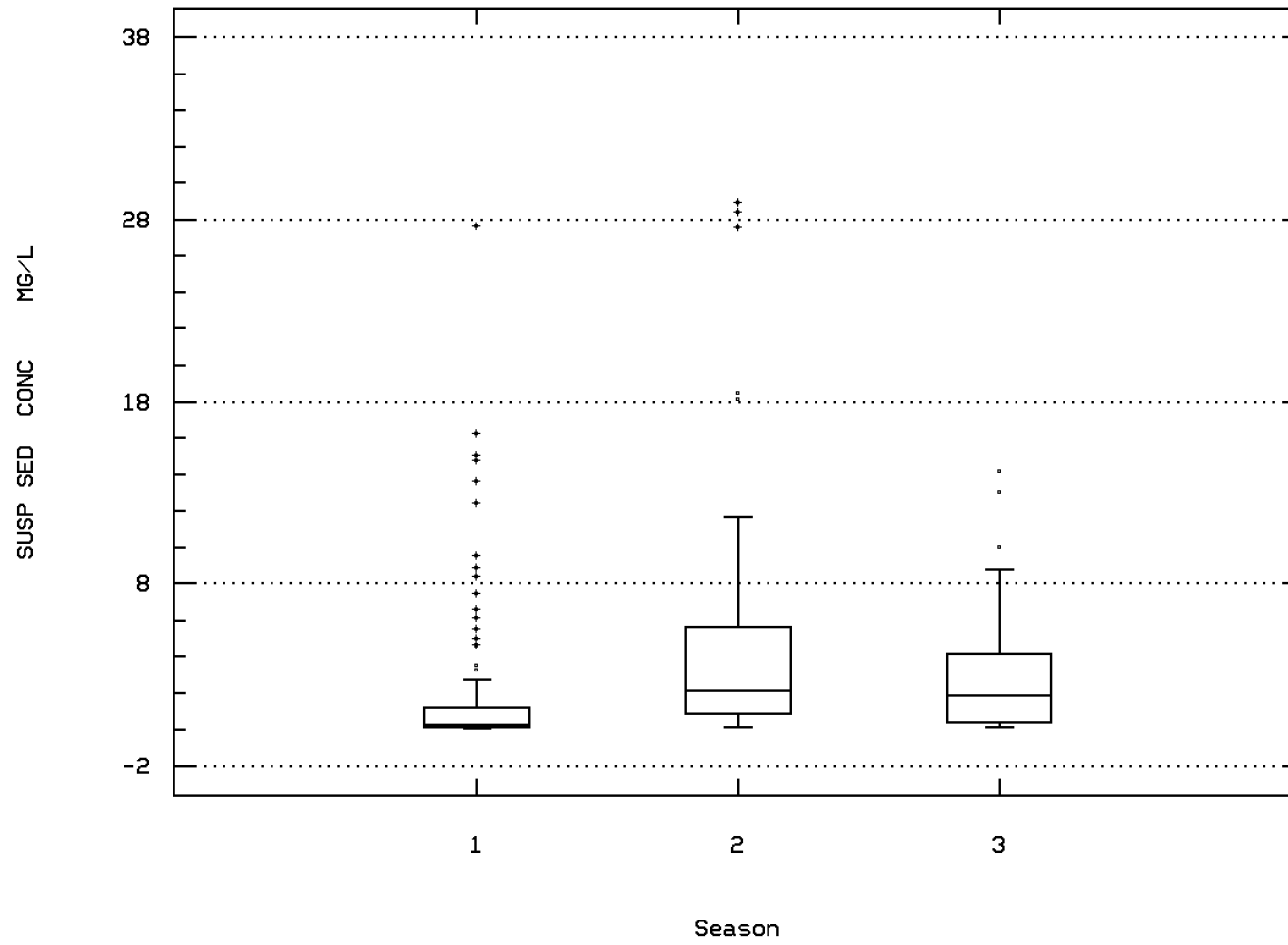


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1

(X 1000)

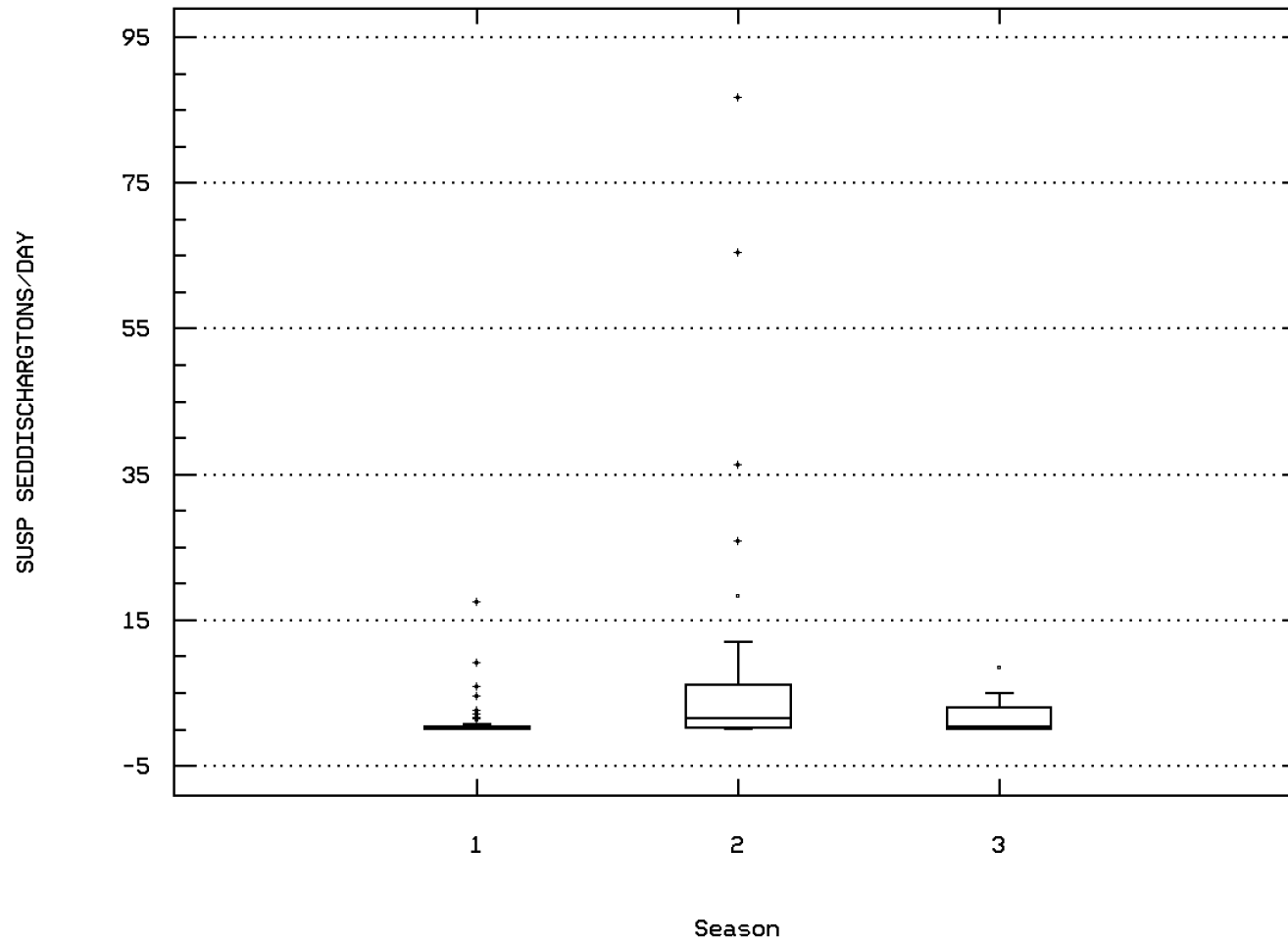


BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 80155

SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)

(X 10000)



BIGHORN R AT KANE WYO

Station Inventory for Station: BICA0003

NPS Station ID: BICA0003
 Location: BIGHORN RIVER AT KANE, WYOMING
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER BASIN
 Minor Basin: YELLOWSTONE BASIN
 RF1 Index: 10080010042
 RF3 Index: 10080014000703.52
 Description:

LAT/LON: 44.758615/-108.180838

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 1.310
 RF3 Mile Point: 11.07

Agency: 1110NET
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 06279500
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.00

On/Off RF1: OFF
 On/Off RF3:

BIGHORN RIVER @ KANE, WYO. BIG HORN COUNTY, ON RIGHT BANK 180 FT UPSTRE- AM FROM BIGHORN CANYON NATIONAL RECREATION AREA BOUNDARY, 0.5 MILE UPST-
 REAM FROM NORMAL HIGH-WATER LINE OF BIGHORN LAKE AT ELEVATION 3,660 FT, 1.3 MILES UPSTREAM FROM FIVE SPRING CREEK, AND 5.9 MILES SOUTH OF KANE.
 COOPERATIVE EPA-USGS WATER QUALITY STATION ENTERED AS A EPA NET STATION FOR PURPOSE OF RECORDING: (1) DATA SAMPLED BY USGS BUT ANALYZED BY EPA
 LABORATORIES AND (2) THE FOLLOWING USGS FIELD DATA; FLOW, WATER TEMPERAT- URE, DO, PH, TOTAL COLIFORM AND FECAL COLIFORM.

Parameter Inventory for Station: BICA0003

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/19/72-10/31/73 | 7 | 0.36 | 0.429 | 1.22 | 0.09 | 0.167 | 0.409 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 07/19/72-10/31/73 | 7 | 0.06 | 0.096 | 0.255 | 0.025 | 0.006 | 0.08 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 07/19/72-10/31/73 | 7 | 0.024 | 0.026 | 0.06 | 0.003 | 0.001 | 0.023 | ** | ** | ** | ** |
| 01025 CADMIUM, DISSOLVED (UG/L AS CD) | 07/19/72-10/31/73 | 7 ## | 2.5 | 3.571 | 5. | 2.5 | 1.786 | 1.336 | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/19/72-10/31/73 | 7 ## | 5. | 5. | 10. | 2.5 | 6.25 | 2.5 | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/19/72-10/31/73 | 7 | 5. | 6.786 | 14. | 2.5 | 15.155 | 3.893 | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/19/72-10/31/73 | 7 | 26. | 33.143 | 66. | 20. | 248.81 | 15.774 | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/19/72-10/31/73 | 7 | 5. | 8. | 17. | 5. | 27. | 5.196 | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/19/72-10/31/73 | 7 | 10. | 10.857 | 15. | 5. | 10.81 | 3.288 | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/19/72-10/31/73 | 7 | 10. | 19.286 | 75. | 5. | 621.238 | 24.925 | ** | ** | ** | ** |
| 09503 RADIUM 226, DISSOLVED | 07/24/73-07/24/73 | 1 | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 09505 RADIUM 226, SUSPENDED | 07/24/73-07/24/73 | 1 | 40.94 | 40.94 | 40.94 | 40.94 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/24/73-07/24/73 | 1 | 9.8 | 9.8 | 9.8 | 9.8 | 0. | 0. | ** | ** | ** | ** |
| 22705 URANIUM, NATURAL, SUSPENDED | 07/24/73-07/24/73 | 1 | 21.36 | 21.36 | 21.36 | 21.36 | 0. | 0. | ** | ** | ** | ** |
| 70299 SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L) | 07/24/73-07/24/73 | 1 | 17800. | 17800. | 17800. | 17800. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0003

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 7 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 01025 CADMIUM, DISSOLVED | Fresh Acute | 3.9 | 6 | 2 | 0.33 | 2 | 0 | 0.00 | 1 | 1 | 1.00 | 3 | 1 | 0.33 | | | |
| | Drinking Water | 5. | 6 | 2 | 0.33 | 2 | 0 | 0.00 | 1 | 1 | 1.00 | 3 | 1 | 0.33 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0003

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|-----------------|-----------------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed Standard | Prop. Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 15. | 7 | 1 | 0.14 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 1 | 0.33 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22705 URANIUM, NATURAL SUSPENDED | Drinking Water | 20. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0004

NPS Station ID: BICA0004
Location: BIG HORN RIVER
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: T/YELLOWTAIL RESERVOIR
Minor Basin: GAGING STATN .4 MI W OF DIRT RD
RF1 Index: 10080010042
RF3 Index: 10080010000100.00
Description:
BANK SAMPLE AT USGS GAGING STATION .4 MI W OF DIRT RD SEC 9 T55N R94W

LAT/LON: 44.758615/-108.180838

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 1.310
RF3 Mile Point: 0.00

Agency: 11EPALES
FIPS State/County: 56000 WYOMING/
STORET Station ID(s): 5614A2
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.02

Date Created: / /

On/Off RF1: OFF
On/Off RF3:

Parameter Inventory for Station: BICA0004

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|--------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|-------|-------|-------|-------|-------|
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 10/05/74-09/10/75 | 11 | 0.03 | 0.066 | 0.41 | 0.02 | 0.013 | 0.114 | 0.02 | 0.025 | 0.04 | 0.338 |
| 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 1 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 1 | 0.256 | 0.256 | 0.256 | 0.256 | 0. | 0. | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 10/05/74-09/10/75 | 10 | 1.05 | 1.253 | 1.9 | 0.825 | 0.183 | 0.427 | 0.828 | 0.888 | 1.7 | 1.895 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 10/05/74-09/10/75 | 11 | 0.26 | 0.304 | 0.73 | 0.14 | 0.026 | 0.161 | 0.148 | 0.22 | 0.32 | 0.67 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/05/74-09/10/75 | 10 | 0.285 | 0.322 | 0.93 | 0.04 | 0.083 | 0.288 | 0.041 | 0.058 | 0.5 | 0.893 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 10/05/74-09/10/75 | 11 | 0.025 | 0.022 | 0.04 | 0.003 | 0. | 0.015 | 0.003 | 0.005 | 0.035 | 0.04 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0004

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 11 | 0 | 0.00 | 5 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0005

NPS Station ID: BICA0005
 Location: BIGHORN RIVER AT USGS 06279500
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010042
 RF3 Index: 10080010005400.00
 Description:

LAT/LON: 44.758615/-108.180838

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 1.310
 RF3 Mile Point: 0.43

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 000506
 Within Park Boundary: No

Date Created: 03/19/76

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.12

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0005

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00310 BOD, 5 DAY, 20 DEG C MG/L | 09/18/75-09/18/75 | 1 | 2.2 | 2.2 | 2.2 | 2.2 | 0. | 0. | ** | ** | ** | ** |
| 01501 ALPHA, TOTAL | 09/18/75-09/18/75 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01502 ALPHA, TOTAL, COUNTING ERROR | 09/18/75-09/18/75 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 03501 BETA, TOTAL | 09/18/75-09/18/75 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 03502 BETA, TOTAL, COUNTING ERROR | 09/18/75-09/18/75 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0006

NPS Station ID: BICA0006 LAT/LON: 44.758670/-108.180782

Location: BIGHORN RIVER 6.5 MILES SOUTH OF KANE WYOMING

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE APPROXIMATELY 6.5 MILES SOUTH OF KANE WYOMING. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_SOLT_BIGHO

Within Park Boundary: No

Date Created: 11/15/97

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0006

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|-------|--------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/22/68-08/18/69 | 36 | 15.85 | 15.103 | 28.2 | 0. | 46.505 | 6.819 | 5.14 | 10.35 | 19.675 | 23.63 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 02/22/68-08/18/69 | 39 | 258. | 711.41 | 4900. | 30. | 1128008.933 | 1062.078 | 65. | 106. | 790. | 1710. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 02/22/68-08/18/69 | 38 | 860.5 | 830.711 | 1247. | 412. | 43831.833 | 209.361 | 482.8 | 670.75 | 940.25 | 1110.6 |
| 00403 PH, LAB, STANDARD UNITS SU | 02/22/68-08/18/69 | 38 | 8.3 | 8.263 | 8.5 | 7.7 | 0.041 | 0.203 | 7.99 | 8.175 | 8.4 | 8.5 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 02/22/68-08/18/69 | 38 | 8.3 | 8.21 | 8.5 | 7.7 | 0.044 | 0.21 | 7.99 | 8.175 | 8.4 | 8.5 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/22/68-08/18/69 | 38 | 0.005 | 0.006 | 0.02 | 0.003 | 0. | 0.004 | 0.003 | 0.004 | 0.007 | 0.01 |
| 00406 PH, FIELD, STANDARD UNITS SU | 02/22/68-08/11/69 | 34 | 8.22 | 8.171 | 8.63 | 7.33 | 0.111 | 0.332 | 7.595 | 8.012 | 8.413 | 8.53 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 02/22/68-08/11/69 | 34 | 8.22 | 8.016 | 8.63 | 7.33 | 0.135 | 0.368 | 7.595 | 8.012 | 8.413 | 8.53 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/22/68-08/11/69 | 34 | 0.006 | 0.01 | 0.047 | 0.002 | 0. | 0.011 | 0.003 | 0.004 | 0.01 | 0.026 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 02/22/68-08/18/69 | 40 | 175.5 | 167.7 | 233. | 86. | 1264.831 | 35.564 | 115.1 | 140. | 199.5 | 208.8 |
| 00600 NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/11/69 | 39 | 1.03 | 1.065 | 2.82 | 0.17 | 0.343 | 0.586 | 0.37 | 0.65 | 1.44 | 1.78 |
| 00602 NITROGEN, DISSOLVED (MG/L AS N) | 02/22/68-08/11/69 | 30 | 0.435 | 0.511 | 1.28 | 0.03 | 0.103 | 0.321 | 0.13 | 0.24 | 0.778 | 0.937 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 38 | 0.255 | 0.293 | 1.36 | 0. | 0.068 | 0.261 | 0.04 | 0.15 | 0.35 | 0.715 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 38 | 0.005 | 0.007 | 0.028 | 0.002 | 0. | 0.006 | 0.003 | 0.003 | 0.007 | 0.011 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 39 | 0.36 | 0.377 | 0.79 | 0.09 | 0.026 | 0.162 | 0.2 | 0.26 | 0.49 | 0.58 |
| 00650 PHOSPHATE, TOTAL (MG/L AS PO4) | 02/22/68-08/18/69 | 40 | 0.43 | 1.356 | 16.83 | 0. | 9.403 | 3.066 | 0.024 | 0.203 | 1.108 | 3.133 |
| 00653 PHOSPHATE, TOTAL SOLUBLE (MG/L) | 02/22/68-08/18/69 | 33 | 0.06 | 0.12 | 1.51 | 0. | 0.07 | 0.265 | 0. | 0.02 | 0.09 | 0.302 |
| 00655 PHOSPHATE, POLY (MG/L AS PO4) | 03/17/69-08/18/69 | 22 | 0.055 | 0.128 | 1.23 | 0. | 0.071 | 0.267 | 0. | 0. | 0.13 | 0.376 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 02/22/68-08/18/69 | 40 | 0.05 | 0.108 | 1.55 | 0. | 0.063 | 0.25 | 0. | 0.01 | 0.115 | 0.224 |
| 00680 CARBON, TOTAL ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 26 | 15.3 | 19.073 | 50.2 | 5.8 | 139.804 | 11.824 | 7.38 | 9.425 | 24.075 | 38.13 |
| 00681 CARBON, DISSOLVED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 26 | 8.8 | 9.173 | 20. | 1.2 | 14.374 | 3.791 | 4.82 | 7.075 | 10.975 | 13.99 |
| 00689 CARBON, SUSPENDED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 26 | 5.95 | 9.696 | 39.6 | 0. | 111.32 | 10.551 | 0. | 1.15 | 13.325 | 27.15 |
| 00916 CALCIUM, TOTAL (MG/L AS CA) | 02/22/68-08/18/69 | 40 | 74. | 70.75 | 109.8 | 29.1 | 287.583 | 16.958 | 47.32 | 58.9 | 80.65 | 93. |
| 00927 MAGNESIUM, TOTAL (MG/L AS MG) | 02/22/68-08/18/69 | 40 | 23.55 | 22.688 | 62.8 | 6. | 99.002 | 9.95 | 8.15 | 16.25 | 27. | 31.77 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0006

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|--------|--------|--------|---------|
| 00929 SODIUM, TOTAL (MG/L AS NA) | 02/22/68-08/18/69 | 40 | 77.7 | 79.046 | 156.32 | 25.75 | 748.044 | 27.35 | 41.564 | 59.598 | 91.662 | 114.366 |
| 00937 POTASSIUM, TOTAL MG/L AS K) | 02/22/68-08/18/69 | 40 | 4.69 | 4.984 | 10.56 | 2.35 | 2.607 | 1.615 | 3.169 | 3.91 | 5.763 | 7.04 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 02/22/68-08/18/69 | 40 | 12. | 12.425 | 20. | 4. | 18.097 | 4.254 | 6.1 | 9. | 15.75 | 18.9 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 02/22/68-08/18/69 | 39 | 271. | 260.974 | 398. | 50. | 7372.657 | 85.864 | 148. | 202. | 337. | 360. |
| 00951 FLUORIDE, TOTAL (MG/L AS F) | 02/22/68-08/18/69 | 40 | 0.57 | 0.679 | 2.09 | 0.38 | 0.081 | 0.285 | 0.38 | 0.57 | 0.76 | 0.931 |
| 00956 SILICA, TOTAL (MG/L AS SiO2) | 03/07/68-08/18/69 | 37 | 8.8 | 9.227 | 19.4 | 6.3 | 5.664 | 2.38 | 6.56 | 7.7 | 10.25 | 11.54 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 02/22/68-08/18/69 | 39 | 2. | 2.479 | 22. | 0.5 | 14.985 | 3.871 | 0.8 | 1. | 2. | 4. |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 02/22/68-08/18/69 | 39 | 75. | 158.641 | 2145. | 0. | 122033.605 | 349.333 | 5. | 9. | 207. | 374. |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 03/28/68-08/18/69 | 36 | 44.5 | 62.056 | 232. | 0. | 3271.368 | 57.196 | 9.1 | 23. | 78. | 160.5 |
| 74010 IRON, TOTAL (MG/L AS FE) | 02/22/68-08/18/69 | 38 | 0.235 | 0.775 | 4.02 | 0.001 | 1.177 | 1.085 | 0.01 | 0.045 | 1.085 | 2.853 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0006

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|---------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 39 | 37 | 0.95 | 17 | 15 | 0.88 | 12 | 12 | 1.00 | 10 | 10 | 1.00 | | | |
| 00403 PH, LAB | Fresh Chronic | 9. | 38 | 0 | 0.00 | 16 | 0 | 0.00 | 13 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 38 | 0 | 0.00 | 16 | 0 | 0.00 | 13 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| 00406 PH, FIELD | Fresh Chronic | 9. | 34 | 0 | 0.00 | 12 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 34 | 0 | 0.00 | 12 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 00615 NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 38 | 0 | 0.00 | 16 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 39 | 0 | 0.00 | 17 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 40 | 0 | 0.00 | 17 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 40 | 0 | 0.00 | 17 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 39 | 26 | 0.67 | 17 | 17 | 1.00 | 12 | 3 | 0.25 | 10 | 6 | 0.60 | | | |
| 00951 FLUORIDE, TOTAL AS F | Drinking Water | 4. | 40 | 0 | 0.00 | 17 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 39 | 1 | 0.03 | 17 | 1 | 0.06 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 39 | 0 | 0.00 | 17 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 36 | 8 | 0.22 | 15 | 2 | 0.13 | 12 | 2 | 0.17 | 9 | 4 | 0.44 | | | |
| | Drinking Water | 5000. | 36 | 0 | 0.00 | 15 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0007

| | | | |
|----------------------------------|--------------------------------|----------------------------------------------|------------------------|
| NPS Station ID: BICA0007 | LAT/LON: 44.812809/-108.095003 | Agency: 11NPSWRD | Date Created: 11/08/97 |
| Location: W00313 | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /TYPA/AMBNT/SPRING | | STORET Station ID(s): BICA_NURE_039 /1151484 | |
| RMI-Indexes: | | Within Park Boundary: No | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0007

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/01/76-08/01/76 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/01/76-08/01/76 | 1 | 600. | 600. | 600. | 600. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/01/76-08/01/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/01/76-08/01/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/01/76-08/01/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/01/76-08/01/76 | 1 | 3.15 | 3.15 | 3.15 | 3.15 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0007

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0008

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0008 Location: W00216 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE KANE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.813310/-108.187198 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_120 /1151533 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0008

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 1 | 400. | 400. | 400. | 400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/24/76-07/24/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 1 | 2.68 | 2.68 | 2.68 | 2.68 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0008

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0009

| | | | |
|----------------------------------|--------------------------------|----------------------------------------------|------------------------|
| NPS Station ID: BICA0009 | LAT/LON: 44.816116/-108.064392 | Agency: 11NPSWRD | Date Created: 11/08/97 |
| Location: W00316 | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /TYPA/AMBNT/SPRING | | STORET Station ID(s): BICA_NURE_036 /1151485 | |
| RMI-Indexes: | | Within Park Boundary: No | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0009

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/01/76-08/01/76 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/01/76-08/01/76 | 1 | 440. | 440. | 440. | 440. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/01/76-08/01/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/01/76-08/01/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/01/76-08/01/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/01/76-08/01/76 | 1 | 0.93 | 0.93 | 0.93 | 0.93 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0009

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0010

NPS Station ID: BICA0010 LAT/LON: 44.819253/-108.180948
 Location: BIGHORN RIVER 1/2 MILE SOUTH OF BIGHORN LAKE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010 RF1 Mile Point: 0.000
 RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_CSU_BIGHOR
 Within Park Boundary: Yes

Date Created: 12/20/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE BIGHORN RIVER APPROXIMATELY 1/2 MILE SOUTH OF BIGHORN LAKE. SAMPLES FOR THIS SITE WERE COLLECTED FROM JUNE 1980 TO APRIL 1981. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0010

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|-------|-------|-------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/80-04/01/81 | 11 | 12.5 | 11. | 23. | -1. | 82.45 | 9.08 | 0. | 6. | 19. | 22.6 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/80-11/26/80 | 8 | 738.5 | 700. | 768. | 543. | 5972. | 77.279 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/09/80-04/01/81 | 10 | 8.1 | 8.02 | 8.2 | 7.7 | 0.024 | 0.155 | 7.71 | 7.95 | 8.1 | 8.19 |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/09/80-04/01/81 | 10 | 8.1 | 7.992 | 8.2 | 7.7 | 0.025 | 0.158 | 7.71 | 7.95 | 8.1 | 8.19 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/09/80-04/01/81 | 10 | 0.008 | 0.01 | 0.02 | 0.006 | 0. | 0.004 | 0.006 | 0.008 | 0.011 | 0.02 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 06/09/80-10/16/80 | 6 | 176. | 180.833 | 204. | 160. | 271.767 | 16.485 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/09/80-10/16/80 | 6 | 0.084 | 0.093 | 0.15 | 0.058 | 0.001 | 0.037 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 4 | 1.34 | 1.688 | 3.4 | 0.67 | 1.694 | 1.301 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/80-08/06/80 | 4 | 0.245 | 0.908 | 3. | 0.14 | 1.949 | 1.396 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 06/09/80-04/01/81 | 12 | 0.018 | 0.015 | 0.031 | 0.001 | 0. | 0.01 | 0.001 | 0.005 | 0.024 | 0.03 |
| 82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 06/09/80-11/26/80 | 8 | 81.5 | 930.5 | 6400. | 32. | 4905970.286 | 2214.943 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0010

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0010

| Parameter | Std. Type | Std. Value | Total | Exceed | Prop. | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------|----------------|-------|----------|-----------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 4 | 0 | 0.00 | | | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 82079 | TURBIDITY, LAB | Other-Hi Lim. | 50. | 8 | 5 | 0.63 | 5 | 3 | 0.60 | 1 | 1 | 1.00 | 2 | 1 | 0.50 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0011

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| NPS Station ID: BICA0011 Location: W00312 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.821892/-108.122810 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_122 /1151545 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0011

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/01/76-08/01/76 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/01/76-08/01/76 | 1 | 350. | 350. | 350. | 350. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/01/76-08/01/76 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/01/76-08/01/76 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/01/76-08/01/76 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/01/76-08/01/76 | 1 | 1.64 | 1.64 | 1.64 | 1.64 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0011

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0012

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| NPS Station ID: BICA0012 Location: W00261 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE KANE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.830003/-108.152198 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_121 /1151540 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0012

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 24. | 24. | 24. | 24. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 360. | 360. | 360. | 360. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.126 | 0.126 | 0.126 | 0.126 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 1.44 | 1.44 | 1.44 | 1.44 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0012

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0013

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| NPS Station ID: BICA0013 Location: WILCOCK POND EAST OF LOVELL WY Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: | LAT/LON: 44.833338/-108.083338 Depth of Water: 0 Elevation: 4600 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_WRDS_6 /42069702:0 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/01/97

On/Off RF1:
On/Off RF3:

The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Cottonwood Canyon WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0013

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/12/69-05/12/69 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 05/12/69-05/12/69 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 05/12/69-05/12/69 | 1 | 8.7 | 8.7 | 8.7 | 8.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 05/12/69-05/12/69 | 1 | 8.7 | 8.7 | 8.7 | 8.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/12/69-05/12/69 | 1 | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 00411 ALKALINITY,METHYLORANGE MG/L | 05/12/69-05/12/69 | 1 | 171. | 171. | 171. | 171. | 0. | 0. | ** | ** | ** | ** |
| 00415 ALKALINITY, PHENOLPHTHALEIN (MG/L) | 05/12/69-05/12/69 | 1 ## | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 05/12/69-05/12/69 | 1 | 118. | 118. | 118. | 118. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0013

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | 1 | | | 1 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0013

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----|---------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0014

NPS Station ID: BICA0014
 Location: CITY OF LOVELL WY
 Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080014
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 44.833338/-108.383337

Depth of Water: 0
 Elevation: 3850

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_WRDS_9 /WRDS-00086:0
 Within Park Boundary: No

Date Created: 11/01/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

The Wyoming Department of Environmental Quality collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Lovell WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0014

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00720 CYANIDE, TOTAL (MG/L AS CN) MG/L | 02/08/73-02/08/73 | 1 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 01000 ARSENIC, DISSOLVED (UG/L AS AS) | 02/08/73-02/08/73 | 1 ## | 3.5 | 3.5 | 3.5 | 3.5 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 02/08/73-02/08/73 | 1 ## | 250. | 250. | 250. | 250. | 0. | 0. | ** | ** | ** | ** |
| 01025 CADMIUM, DISSOLVED (UG/L AS CD) | 02/08/73-02/08/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01032 CHROMIUM, HEXAVALENT (UG/L AS CR) | 02/08/73-02/08/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 02/08/73-02/08/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 02/08/73-02/08/73 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01145 SELENIUM, DISSOLVED (UG/L AS SE) | 02/08/73-02/08/73 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 02/08/73-02/08/73 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 38260 METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.) | 02/08/73-02/08/73 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0014

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00720 | CYANIDE, TOTAL | | | | | | | | | | | | | | | | |
| | Fresh Acute | 0.022 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 0.2 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01000 | ARSENIC, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 360. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 50. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01025 | CADMIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 3.9 | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| | Drinking Water | 5. | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| 01032 | CHROMIUM, HEXAVALENT | | | | | | | | | | | | | | | | |
| | Fresh Acute | 16. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 82. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 | SILVER, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 4.1 | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01145 | SELENIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 50. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0015

NPS Station ID: BICA0015
 Location: LOVELL WTP INTAKE-SHOSHONE RIVER
 Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080014005
 RF3 Index: 10080010011400.83
 Description:

LAT/LON: 44.835560/-108.412781

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 2.940
 RF3 Mile Point: 0.85

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 090302
 Within Park Boundary: No

Date Created: 09/03/83

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 8.10
 Distance from RF3: 0.02

On/Off RF1: ON
 On/Off RF3:

Parameter Inventory for Station: BICA0015

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/15/83-08/07/85 | 11 | 10. | 9.545 | 20. | 0. | 49.873 | 7.062 | 0.4 | 4. | 17. | 19.8 |
| 00400 PH (STANDARD UNITS) | 02/15/83-08/07/85 | 10 | 8.335 | 8.28 | 8.93 | 7.1 | 0.228 | 0.477 | 7.21 | 8.2 | 8.475 | 8.907 |
| 00400 CONVERTED PH (STANDARD UNITS) | 02/15/83-08/07/85 | 10 | 8.334 | 7.925 | 8.93 | 7.1 | 0.367 | 0.606 | 7.21 | 8.2 | 8.475 | 8.907 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/15/83-08/07/85 | 10 | 0.005 | 0.012 | 0.079 | 0.001 | 0.001 | 0.024 | 0.001 | 0.003 | 0.006 | 0.072 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/15/83-02/15/83 | 1 | 0.12 | 0.12 | 0.12 | 0.12 | 0. | 0. | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 02/15/83-08/07/85 | 11 | 0.77 | 0.827 | 1.78 | 0.18 | 0.212 | 0.46 | 0.204 | 0.5 | 1.06 | 1.676 |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 02/15/83-08/07/85 | 11 | 254. | 242.091 | 429. | 111. | 8004.491 | 89.468 | 114.8 | 163. | 279. | 407.4 |
| 00951 FLUORIDE, TOTAL (MG/L AS F) | 02/15/83-08/07/85 | 11 | 0.46 | 0.489 | 0.69 | 0.22 | 0.017 | 0.132 | 0.256 | 0.44 | 0.63 | 0.68 |
| 31613 FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 06/16/81-11/04/87 | 21 | 77. | 154.167 | 650. | 1.5 | 38266.483 | 195.618 | 2. | 12. | 238. | 536. |
| 31613 LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24 | 06/16/81-11/04/87 | 21 | 1.886 | 1.646 | 2.813 | 0.176 | 0.755 | 0.869 | 0.301 | 1.079 | 2.375 | 2.729 |
| 31613 GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H | GEOMETRIC MEAN = | | | 44.293 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0015

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|---------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|---|------|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 11 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 00951 FLUORIDE, TOTAL AS F | Drinking Water | 4. | 11 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR | Other-Hi Lim. | 200. | 21 | 6 | 0.29 | 13 | 2 | 0.15 | 4 | 1 | 0.25 | 4 | 3 | 0.75 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0015

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|------|-------|-------|
| 31613 | FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 06/16/81-11/04/87 | 13 | 27. | 126.731 | 650. | 1.5 | 46680.942 | 216.058 | 1.7 | 7. | 130. | 610. |
| 31613 | LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24 | 06/16/81-11/04/87 | 13 | 1.431 | 1.455 | 2.813 | 0.176 | 0.755 | 0.869 | 0.226 | 0.69 | 2.102 | 2.784 |
| 31613 | GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H | GEOMETRIC MEAN = | | | 28.537 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0015

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 31613 | FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 06/16/81-11/04/87 | 4 | 145. | 139.5 | 256. | 12. | 9979.667 | 99.898 | ** | ** | ** | ** |
| 31613 | LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24 | 06/16/81-11/04/87 | 4 | 2.161 | 1.952 | 2.408 | 1.079 | 0.353 | 0.594 | ** | ** | ** | ** |
| 31613 | GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H | GEOMETRIC MEAN = | | | 89.621 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0015

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|-----------|-----------|------|------|------|------|
| 31613 | FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 06/16/81-11/04/87 | 4 | 275. | 258. | 480. | 2. | 40482.667 | 201.203 | ** | ** | ** | ** |
| 31613 | LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24 | 06/16/81-11/04/87 | 4 | 2.43 | 1.961 | 2.681 | 0.301 | 1.244 | 1.115 | ** | ** | ** | ** |
| 31613 | GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H | GEOMETRIC MEAN = | | | 91.37 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BICA0016

NPS Station ID: BICA0016
 Location: SHOSHONE R 1 MILE W OF LOVELL
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin: MISSOURI R. MAJOR BASIN
 Minor Basin: YELLOWSTONE RIVER BASIN
 RF1 Index: 10080014057
 RF3 Index: 10080010026300.00
 Description:
 SHOSHONE RIVER AT HIGHWAY 789 BRIDGE, 1 MILE WEST OF LOVELL, WYOMING.

LAT/LON: 44.836115/-108.434726

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.100
 RF3 Mile Point: 0.71

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 00R020
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.16

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0016

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|-------|-------|------|
| 01503 ALPHA, DISSOLVED | 06/29/67-05/15/71 | 15 | 2. | 2.14 | 7. | 0.3 | 3.165 | 1.779 | 0.48 | 0.8 | 3. | 5.2 |
| 01504 ALPHA, DISSOLVED, COUNTING ERROR | 06/29/67-05/15/71 | 15 | 2. | 2.267 | 4. | 1. | 1.067 | 1.033 | 1. | 1. | 3. | 4. |
| 01505 ALPHA, SUSPENDED | 06/29/67-05/15/71 | 14 | 2. | 2.343 | 13. | 0.4 | 9.952 | 3.155 | 0.45 | 0.975 | 2. | 8. |
| 01506 ALPHA, SUSPENDED, COUNTING ERROR | 06/29/67-05/15/71 | 14 | 2. | 2.071 | 9. | 1. | 4.225 | 2.056 | 1. | 1. | 2. | 5.5 |
| 01507 ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 06/29/67-05/15/71 | 12 | 4. | 3.758 | 9. | 0.6 | 7.184 | 2.68 | 0.6 | 1.175 | 5.75 | 8.4 |
| 01508 ALPHA, GROSS IN SEDIMENT, COUNTING ERROR | 06/29/67-05/15/71 | 12 | 4. | 4.417 | 6. | 3. | 0.629 | 0.793 | 3.3 | 4. | 5. | 5.7 |
| 03503 BETA, DISSOLVED | 06/29/67-05/15/71 | 16 | 8.5 | 8.813 | 15. | 2. | 12.963 | 3.6 | 2.7 | 7. | 12. | 13.6 |
| 03504 BETA, DISSOLVED, COUNTING ERROR | 06/29/67-05/15/71 | 16 | 4. | 4. | 6. | 3. | 0.8 | 0.894 | 3. | 3. | 4.75 | 5.3 |
| 03505 BETA, SUSPENDED | 06/29/67-05/15/71 | 16 | 7.5 | 21.225 | 230. | 0.6 | 3125.023 | 55.902 | 1.58 | 3. | 12.5 | 82.3 |
| 03506 BETA, SUSPENDED, COUNTING ERROR | 06/29/67-05/15/71 | 16 | 3. | 4.125 | 19. | 2. | 16.25 | 4.031 | 2. | 3. | 4. | 8.5 |
| 03507 BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 06/29/67-05/15/71 | 12 | 19. | 21.25 | 49. | 4. | 150.205 | 12.256 | 5.2 | 11.75 | 28.75 | 43.6 |
| 03508 BETA, GROSS IN SEDIMENT, COUNTING ERROR | 06/29/67-05/15/71 | 12 | 11. | 11.083 | 14. | 8. | 2.265 | 1.505 | 8.6 | 10.25 | 11.75 | 13.7 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0017

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0017 Location: W00218 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080014 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080014 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE LOVELL LAKES WYOMING-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.836698/-108.281698 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_138 /1151534 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

 On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0017

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 1 | 300. | 300. | 300. | 300. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 6.3 | 6.3 | 6.3 | 6.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 6.3 | 6.3 | 6.3 | 6.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/24/76-07/24/76 | 1 | 0.501 | 0.501 | 0.501 | 0.501 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 1 | 1.46 | 1.46 | 1.46 | 1.46 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0017

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0018

NPS Station ID: BICA0018
 Location: W00219
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080014
 RF3 Index: 10080014004800.00

LAT/LON: 44.837810/-108.319392

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_NURE_139 /1151535
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE LOVELL LAKES WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0018

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 1 | 18. | 18. | 18. | 18. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 1 | 3400. | 3400. | 3400. | 3400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/24/76-07/24/76 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 1 | 36.5 | 36.5 | 36.5 | 36.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0018

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0019

NPS Station ID: BICA0019
 Location: SHOSHONE RIVER NEAR LOVELL WYO
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes: 1021500 009490 36810 4430 5300
 RMI-Miles: 1149.40 1582.00 279.40 136.20 014.00
 HUC: 10080014
 Major Basin:
 Minor Basin:
 RF1 Index: 10080014
 RF3 Index: 10080010004201.12
 Description:

LAT/LON: 44.838892/-108.433337

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.11

Agency: 112WRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 06285100
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 313 | 10.5 | 10.04 | 25.5 | 0. | 47.486 | 6.891 | 0. | 4. | 16. | 19. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 142 | 16. | 14.149 | 40. | -26. | 152.815 | 12.362 | 4.5 | -0.5 | 25.625 | 32.55 |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 03/27/96-04/14/97 | 3 | 665. | 664. | 665. | 662. | 3. | 1.732 | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 211 | 863. | 1123.569 | 8670. | 306. | 1160975.342 | 1077.486 | 621.2 | 720. | 1070. | 1526. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 270 | 618. | 1037.081 | 15700. | 70. | 2262118.313 | 1504.034 | 306. | 448. | 949.75 | 2123. |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 11/12/78-09/02/80 | 19 | 65. | 286.895 | 1800. | 3. | 185487.766 | 430.683 | 3. | 25. | 420. | 800. |
| 00076 | TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 10/07/80-12/17/81 | 14 | 50. | 94.357 | 360. | 8. | 12812.093 | 113.191 | 8. | 18.75 | 135. | 335. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 10/01/66-08/11/67 | 23 | 5. | 4.348 | 9. | 0. | 5.51 | 2.347 | 1. | 3. | 6. | 8. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 381 | 805. | 824.95 | 1990. | 270. | 61440.616 | 247.872 | 498.4 | 705.5 | 923.5 | 1150. |
| 00300 | OXYGEN, DISSOLVED MG/L | 11/12/78-04/14/97 | 38 | 11.15 | 11.082 | 14.2 | 7.5 | 3.552 | 1.885 | 8.8 | 9.375 | 12.725 | 13.64 |
| 00400p | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 234 | 8. | 7.982 | 8.7 | 6.5 | 0.092 | 0.303 | 7.6 | 7.8 | 8.2 | 8.3 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 234 | 8. | 7.832 | 8.7 | 6.5 | 0.114 | 0.338 | 7.6 | 7.8 | 8.2 | 8.3 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 234 | 0.01 | 0.015 | 0.316 | 0.002 | 0.001 | 0.025 | 0.005 | 0.006 | 0.016 | 0.025 |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/07/80-07/09/87 | 37 | 8.1 | 8.116 | 8.8 | 7.1 | 0.084 | 0.289 | 7.9 | 8. | 8.3 | 8.5 |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/07/80-07/09/87 | 37 | 8.1 | 7.992 | 8.8 | 7.1 | 0.099 | 0.315 | 7.9 | 8. | 8.3 | 8.5 |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/07/80-07/09/87 | 37 | 0.008 | 0.01 | 0.079 | 0.002 | 0. | 0.013 | 0.003 | 0.005 | 0.01 | 0.013 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 04/15/72-08/23/79 | 42 | 3.4 | 4.102 | 16. | 1. | 7.747 | 2.783 | 1.6 | 2.1 | 5.225 | 6.51 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 253 | 174. | 178.628 | 320. | 75. | 1679.242 | 40.979 | 119.2 | 160. | 205. | 227.6 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 243 | 212. | 216.695 | 390. | 92. | 2436.147 | 49.357 | 145.6 | 196. | 248. | 277. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 199 | 0. | 0.206 | 7. | 0. | 0.841 | 0.917 | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/29/87-06/30/87 | 2 | 0.09 | 0.09 | 0.12 | 0.06 | 0.002 | 0.042 | ** | ** | ** | ** |
| 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | 04/20/81-04/20/81 | 1 | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 04/15/72-04/15/72 | 1 | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/29/87-06/30/87 | 2 | 8.6 | 8.6 | 16. | 1.2 | 109.52 | 10.465 | ** | ** | ** | ** |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/29/87-06/30/87 | 2 | 1.5 | 1.5 | 1.7 | 1.3 | 0.08 | 0.283 | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 145 | 0.8 | 0.852 | 11. | 0.01 | 0.834 | 0.913 | 0.36 | 0.5 | 1. | 1.2 |
| 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 04/18/79-06/13/79 | 2 | 0.525 | 0.525 | 0.71 | 0.34 | 0.068 | 0.262 | ** | ** | ** | ** |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 07/15/81-07/15/81 | 1 | 0.21 | 0.21 | 0.21 | 0.21 | 0. | 0. | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 111 | 0.11 | 0.25 | 7.9 | 0.005 | 0.629 | 0.793 | 0.03 | 0.06 | 0.21 | 0.366 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 114 | 0.02 | 0.034 | 0.14 | 0. | 0.001 | 0.03 | 0.005 | 0.01 | 0.05 | 0.08 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 07/15/81-07/15/81 | 1 | 0.07 | 0.07 | 0.07 | 0.07 | 0. | 0. | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 274 | 260. | 274.106 | 620. | 75. | 7709.377 | 87.803 | 165. | 230. | 330. | 372. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 260 | 85. | 93.4 | 320. | 1. | 2331.206 | 48.283 | 40. | 66.25 | 116. | 150. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 291 | 70. | 72.306 | 160. | 21. | 501.337 | 22.391 | 45. | 61. | 86. | 98. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 291 | 21. | 22.694 | 53. | 4. | 64.233 | 8.015 | 13. | 19. | 27. | 33. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 291 | 73. | 72.674 | 160. | 18. | 457.49 | 21.389 | 43.4 | 61. | 85. | 96. |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 274 | 1.95 | 1.922 | 3.2 | 0.8 | 0.171 | 0.413 | 1.4 | 1.6 | 2.2 | 2.45 |
| 00932 | SODIUM, PERCENT | 10/01/66-03/21/83 | 273 | 36. | 36.524 | 58. | 19. | 24.89 | 4.989 | 30. | 33. | 40. | 42.6 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------------|------------------|--------|---------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 7 | 87. | 90.143 | 130. | 72. | 366.476 | 19.144 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 291 | 3.6 | 3.871 | 16. | 1.3 | 2.215 | 1.488 | 2.4 | 3.1 | 4.3 | 5.38 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 291 | 10. | 10.701 | 51. | 1. | 27.079 | 5.204 | 6. | 8. | 13. | 17. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 291 | 223. | 228.77 | 520. | 41. | 5813.123 | 76.244 | 120. | 190. | 260. | 319.6 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 291 | 0.6 | 0.568 | 1.3 | 0.2 | 0.031 | 0.176 | 0.4 | 0.5 | 0.6 | 0.78 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 291 | 15. | 14.677 | 26. | 1.6 | 5.43 | 2.33 | 12. | 14. | 16. | 17. |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 201 | 140. | 142.239 | 300. | 20. | 1967.463 | 44.356 | 80. | 120. | 170. | 200. |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS FE) | 9 | 100. | 107.778 | 260. | 30. | 6644.444 | 81.513 | 30. | 30. | 175. | 260. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 21 | 40. | 137.381 | 2000. | 5. | 183231.548 | 428.056 | 5. | 25. | 60. | 138. |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 11 ## | 0.5 | 1. | 3. | 0.5 | 0.65 | 0.806 | 0.5 | 0.5 | 1. | 2.8 |
| 04024 | PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 04028 | BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 04029 | BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 04035 | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 04037 | PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 1 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** | ** |
| 04041 | CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 2 ## | 0.006 | 0.006 | 0.009 | 0.002 | 0. | 0.005 | ** | ** | ** | ** |
| 04095 | FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 40 | 160. | 323.8 | 3000. | 5. | 255100.677 | 505.075 | 25.3 | 50.5 | 420. | 659. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 40 | 2.203 | 2.164 | 3.477 | 0.699 | 0.354 | 0.595 | 1.403 | 1.703 | 2.623 | 2.819 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | 145.912 | | | | | | | | |
| 34253 | A-BHC-ALPHA DISSUG/L | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 34653 | P,P'-DDE DISSUG/L | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 38442 | DICAMBA (BANVEL) WATER,DISSUG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 38478 | LINURON WATER,DISSUG/L | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** | ** |
| 38482 | MCPA WATER,DISSUG/L | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 38487 | MCPB WATER,DISSUG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 38501 | METHIOCARB WATER,DISSUG/L | 2 ## | 0.013 | 0.013 | 0.013 | 0.013 | 0. | 0. | ** | ** | ** | ** |
| 38538 | PROPOXUR WATER,DISSUG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 38711 | BENTAZON WATER, DISUG/L | 2 ## | 0.007 | 0.007 | 0.007 | 0.007 | 0. | 0. | ** | ** | ** | ** |
| 38746 | 2,4-DB WATER, DISUG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 38811 | FLUOMETURON WATER, DISUG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 38866 | OXAMYL WATER, DISUG/L | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** | ** |
| 38933 | CHLORPYRIFOS,DISSOLVED UG/L | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 39341 | GAMMA-BHC(LINDANE),DISSOLVED,UG/L | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 39415 | METOLACHLOR, WATER, DISSOLVED UG/L | 1 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 39532 | MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 39572 | DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 39632 | ATRAZINE DISSOLVED IN WATER PPB | 2 | 0.006 | 0.006 | 0.008 | 0.004 | 0. | 0.003 | ** | ** | ** | ** |
| 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 39742 | 2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 2 ## | 0.011 | 0.011 | 0.011 | 0.011 | 0. | 0. | ** | ** | ** | ** |
| 46342 | ALACHLOR (LASSO), WATER, DISSOLVED UG/L | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 49235 | TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 49236 | PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |
| 49260 | ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 49291 | PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 49292 | ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 49293 | NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.012 | 0.012 | 0.012 | 0.012 | 0. | 0. | ** | ** | ** | ** |
| 49294 | NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 49295 | NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 49296 | METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** | ** |
| 49297 | FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.007 | 0.007 | 0.007 | 0.007 | 0. | 0. | ** | ** | ** | ** |
| 49298 | ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 49299 | CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------------|-------------------|--------|---------|----------|---------|----------|--------------|-----------|-------|--------|--------|
| 49300 | DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 49301 | DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49302 | DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** |
| 49303 | DICHOENIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 49304 | DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.009 | 0.009 | 0.009 | 0.009 | 0. | 0. | ** | ** | ** |
| 49305 | CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** |
| 49306 | CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49307 | AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** |
| 49308 | HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.007 | 0.007 | 0.007 | 0.007 | 0. | 0. | ** | ** | ** |
| 49309 | CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.014 | 0.014 | 0.014 | 0.014 | 0. | 0. | ** | ** | ** |
| 49310 | CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** |
| 49311 | BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 49312 | ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** |
| 49313 | ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** |
| 49314 | ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.011 | 0.011 | 0.011 | 0.011 | 0. | 0. | ** | ** | ** |
| 49315 | ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L | 03/27/96-07/30/96 | 2 ## | 0.018 | 0.018 | 0.018 | 0.018 | 0. | 0. | ** | ** | ** |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-05/16/72 | 136 | 552. | 533.713 | 867. | 166. | 15396.962 | 124.084 | 318.4 | 492.5 | 598. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 248 | 522. | 538.98 | 1060. | 155. | 23257.145 | 152.503 | 359.6 | 466.25 | 604.75 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 263 | 1200.01 | 1323.918 | 5780. | 270. | 480115.785 | 692.904 | 807.6 | 1000. | 1440. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 274 | 0.72 | 0.739 | 1.44 | 0.21 | 0.044 | 0.21 | 0.445 | 0.64 | 0.83 |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 12/06/76-08/18/82 | 49 | 88. | 84.388 | 100. | 44. | 210.326 | 14.503 | 59. | 77. | 95.5 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/07/71-04/09/80 | 13 | 48. | 45.462 | 79. | 16. | 491.769 | 22.176 | 17.2 | 22.5 | 69. |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/07/71-04/09/80 | 13 | 60. | 60.923 | 99. | 26. | 651.744 | 25.529 | 26.4 | 35. | 88. |
| 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/07/71-07/07/82 | 14 | 80.5 | 78.929 | 100. | 48. | 326.225 | 18.062 | 51. | 59.75 | 97.75 |
| 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/07/71-07/07/82 | 11 | 90. | 85.909 | 99. | 72. | 109.291 | 10.454 | 72. | 73. | 96. |
| 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/07/71-07/07/82 | 11 | 99. | 97. | 100. | 88. | 15.6 | 3.95 | 88.8 | 94. | 100. |
| 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/07/71-07/07/82 | 8 | 100. | 99.5 | 100. | 96. | 2. | 1.414 | ** | ** | ** |
| 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 07/07/82-07/07/82 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 136 | 2.2 | 2.896 | 90. | 0. | 58.278 | 7.634 | 0.61 | 1.3 | 3. |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 04/20/81-04/20/81 | 1 | 0.16 | 0.16 | 0.16 | 0.16 | 0. | 0. | ** | ** | ** |
| 71885 | IRON (UG/L AS FE) | 10/05/66-07/03/67 | 4 | 100. | 227.5 | 700. | 10. | 105291.667 | 324.487 | ** | ** | ** |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 04/18/79-08/14/85 | 37 | 0.37 | 0.478 | 1.4 | 0.06 | 0.159 | 0.398 | 0.09 | 0.165 | 0.645 |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 11/03/70-11/03/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 80154p | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 134 | 159.5 | 370.993 | 6060. | 9. | 603184.263 | 776.649 | 41.5 | 78.5 | 344.5 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 123 | 346. | 2443.936 | 81500. | 2.5 | 109189894.73 | 10449.397 | 51.4 | 135. | 794. |
| 82068 | POTASSIUM 40, DISSOLVED, K-40 PC/LITER | 10/07/80-07/15/81 | 10 | 3.9 | 3.6 | 5.3 | 1.2 | 1.309 | 1.144 | 1.34 | 2.75 | 4.325 |
| 82630 | METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82660 | DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82661 | TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 1 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82663 | ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82664 | PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82665 | TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** |
| 82666 | LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82667 | METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** |
| 82668 | EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82669 | PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82670 | TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** |
| 82671 | MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82672 | ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82673 | BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82674 | CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82675 | TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** |
| 82676 | PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82677 | DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** |
| 82678 | TRIALATE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 | 0.009 | 0.009 | 0.01 | 0.007 | 0. | 0.002 | ** | ** | ** |
| 82679 | PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82680 | CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 1 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82681 | THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82682 | DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |
| 82683 | PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82684 | NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** |
| 82685 | PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** |
| 82686 | METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 82687 PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L | 03/27/96-07/30/96 | 2 ## | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0019

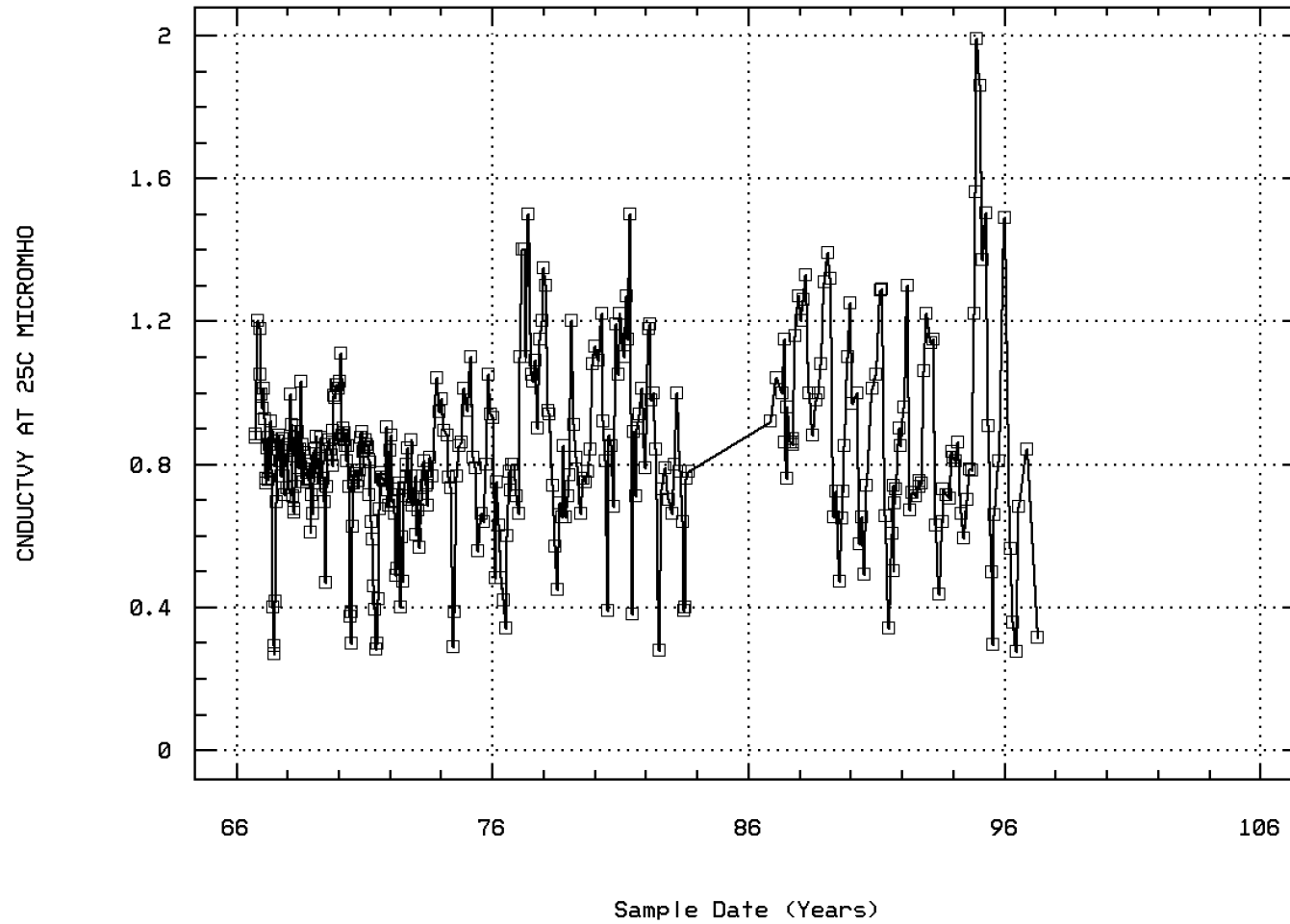
| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 19 | 11 | 0.58 | 12 | 6 | 0.50 | 4 | 3 | 0.75 | 3 | 2 | 0.67 | | | |
| 00076 TURBIDITY, HACH TURBIDIMETER | Other-Hi Lim. | 50. | 14 | 7 | 0.50 | 10 | 5 | 0.50 | 2 | 1 | 0.50 | 2 | 1 | 0.50 | | | |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 38 | 0 | 0.00 | 26 | 0 | 0.00 | 6 | 0 | 0.00 | 6 | 0 | 0.00 | | | |
| 00400 PH | Fresh Chronic | 9. | 234 | 0 | 0.00 | 157 | 0 | 0.00 | 42 | 0 | 0.00 | 35 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 234 | 1 | 0.00 | 157 | 0 | 0.00 | 42 | 1 | 0.02 | 35 | 0 | 0.00 | | | |
| 00403 PH, LAB | Fresh Chronic | 9. | 37 | 0 | 0.00 | 26 | 0 | 0.00 | 5 | 0 | 0.00 | 6 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 37 | 0 | 0.00 | 26 | 0 | 0.00 | 5 | 0 | 0.00 | 6 | 0 | 0.00 | | | |
| 00613 NITRITE NITROGEN, DISSOLVED AS N | Drinking Water | 1. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00618 NITRATE NITROGEN, DISSOLVED AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 2 | 0 | 0.00 | | | | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. | Drinking Water | 10. | 145 | 1 | 0.01 | 101 | 1 | 0.01 | 21 | 0 | 0.00 | 23 | 0 | 0.00 | | | |
| 00940 CHLORIDE,TOTAL IN WATER | Fresh Acute | 860. | 291 | 0 | 0.00 | 198 | 0 | 0.00 | 50 | 0 | 0.00 | 43 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 291 | 0 | 0.00 | 198 | 0 | 0.00 | 50 | 0 | 0.00 | 43 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 291 | 99 | 0.34 | 198 | 82 | 0.41 | 50 | 12 | 0.24 | 43 | 5 | 0.12 | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 291 | 0 | 0.00 | 198 | 0 | 0.00 | 50 | 0 | 0.00 | 43 | 0 | 0.00 | | | |
| 01000 ARSENIC, DISSOLVED | Fresh Acute | 360. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 50. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01025 CADMIUM, DISSOLVED | Fresh Acute | 3.9 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01032 CHROMIUM, HEXAVALENT | Fresh Acute | 16. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01034 CHROMIUM, TOTAL | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01145 SELENIUM, DISSOLVED | Fresh Acute | 20. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 11 | 0 | 0.00 | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 04035 SIMAZINE, DISSOLVED, WATER, TOTAL RECOVER | Drinking Water | 4. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 31625 FECAL COLIFORM, MF | Other-Hi Lim. | 200. | 40 | 18 | 0.45 | 27 | 9 | 0.33 | 8 | 4 | 0.50 | 5 | 5 | 1.00 | | | |
| 34653 P,P'-DDE, DISSOLVED | Fresh Acute | 1050. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 38866 OXAMYL, DISSOLVED | Drinking Water | 200. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 38933 CHLORPYRIFOS, DISSOLVED | Fresh Acute | 0.083 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39341 GAMMA-BHC(LINDANE), DISSOLVED | Fresh Acute | 2. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39381 DIELDRIN IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 2.5 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39542 PARATHION IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 0.065 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39632 ATRAZINE DISSOLVED IN WATER | Drinking Water | 3. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE | Drinking Water | 70. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE | Drinking Water | 50. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 46342 ALACHLOR (LASSO), WATER, DISSOLVED | Drinking Water | 2. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 136 | 1 | 0.01 | 93 | 1 | 0.01 | 26 | 0 | 0.00 | 17 | 0 | 0.00 | | | |
| 71856 NITRITE NITROGEN, DISSOLVED (AS NO2) | Drinking Water | 3.3 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 2. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BICA0019 Parameter Code: 00095

(X 1000)

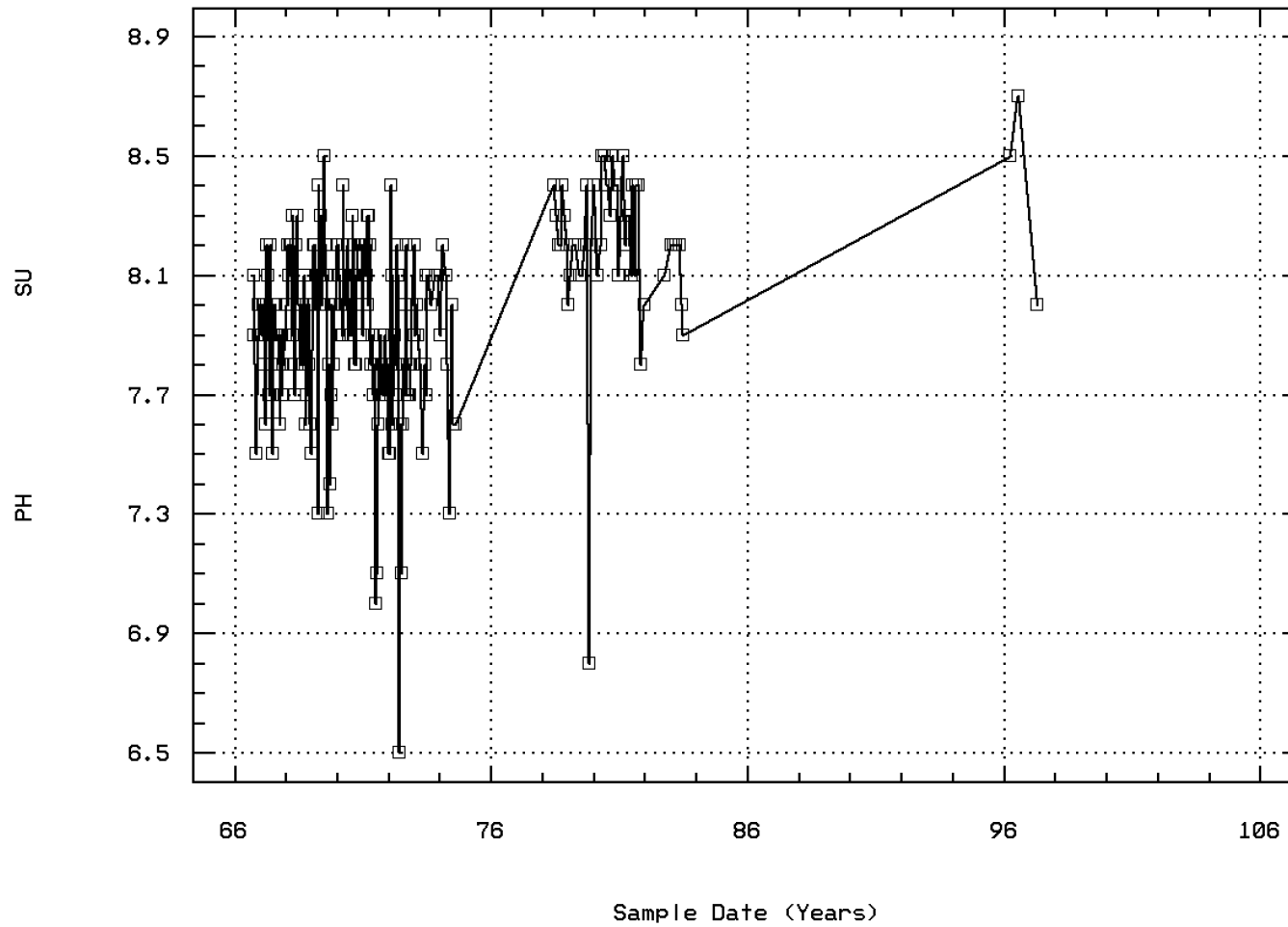
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00400

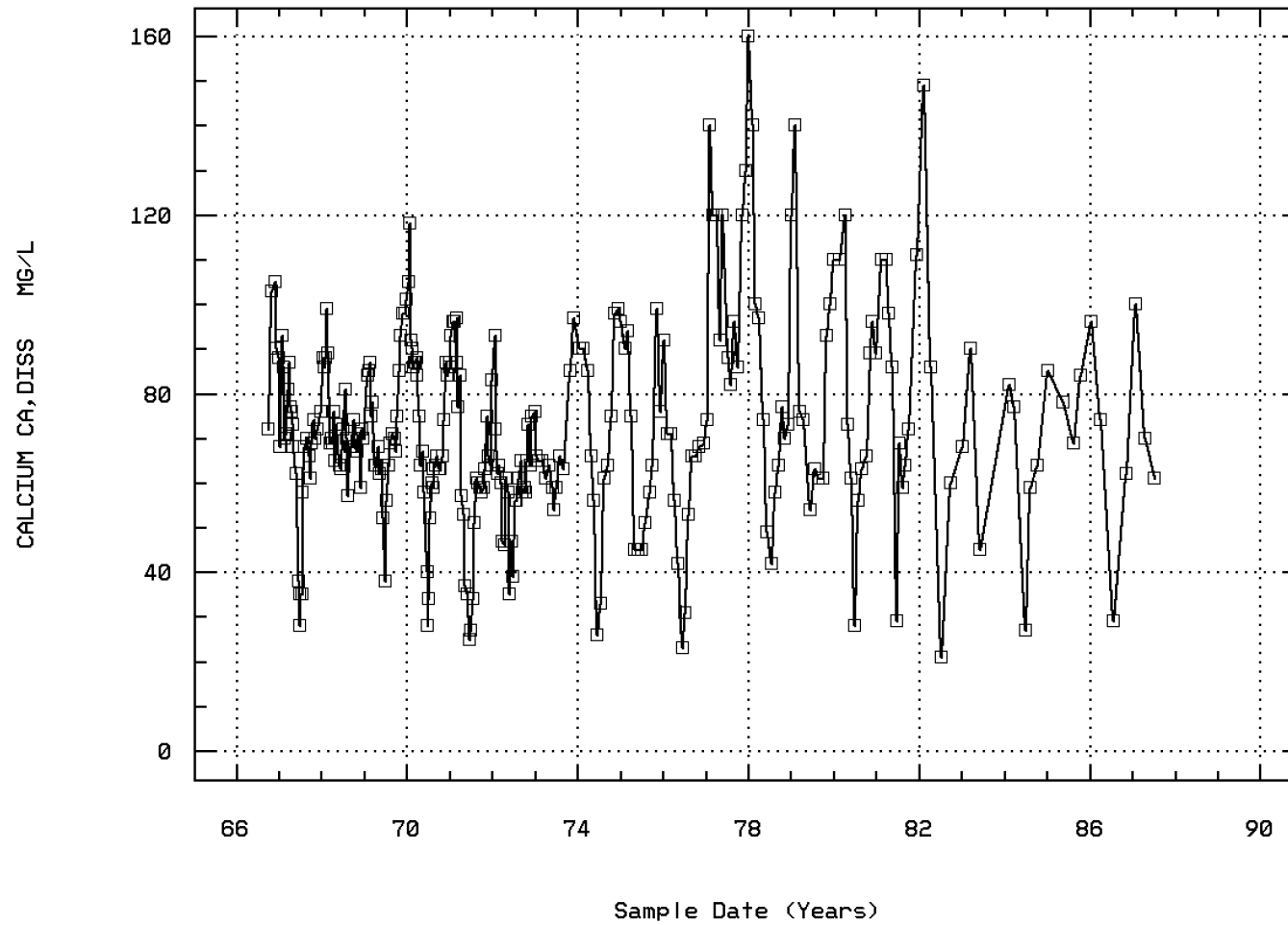
PH (STANDARD UNITS)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00915

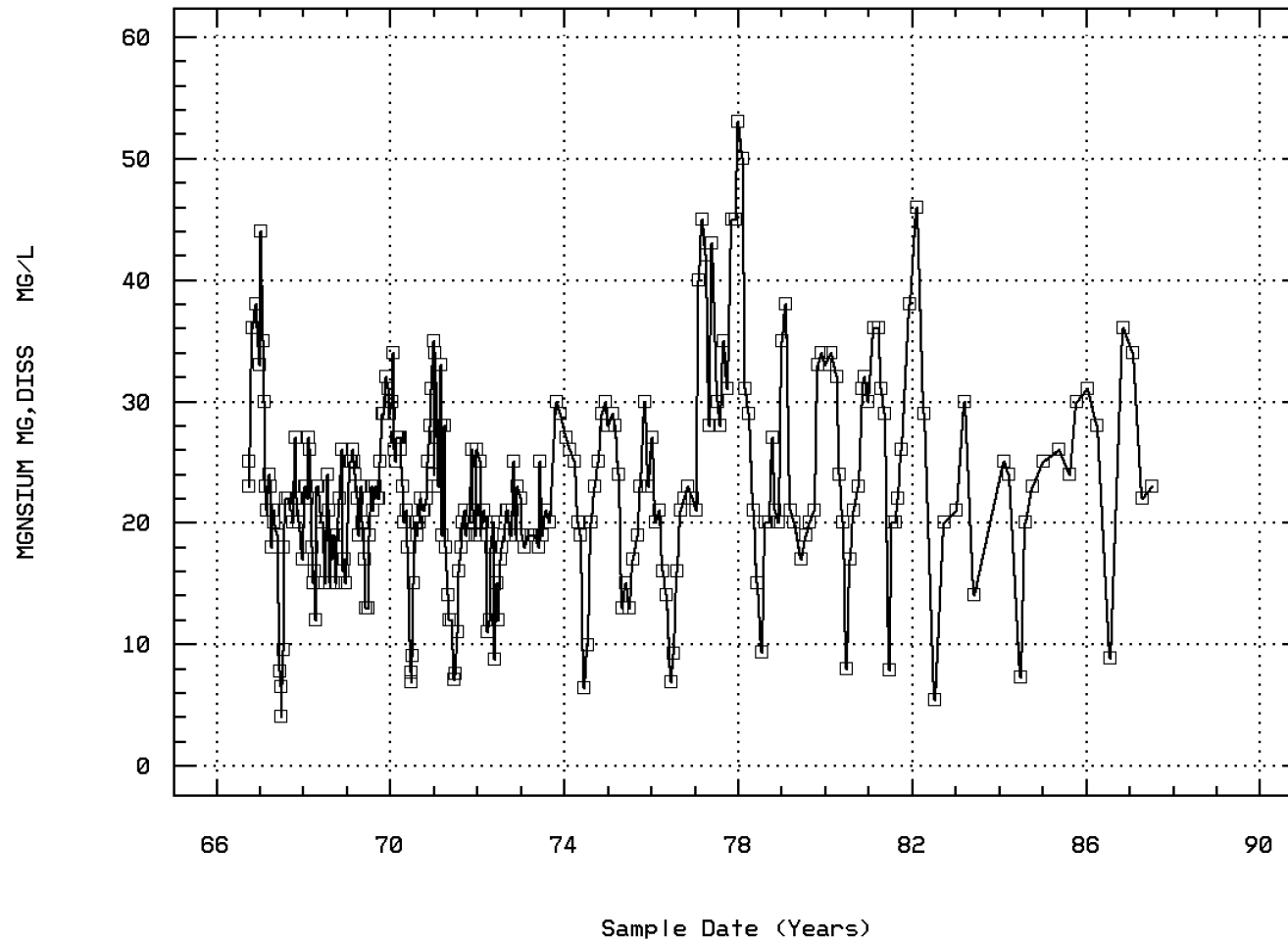
CALCIUM, DISSOLVED (MG/L AS CA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00925

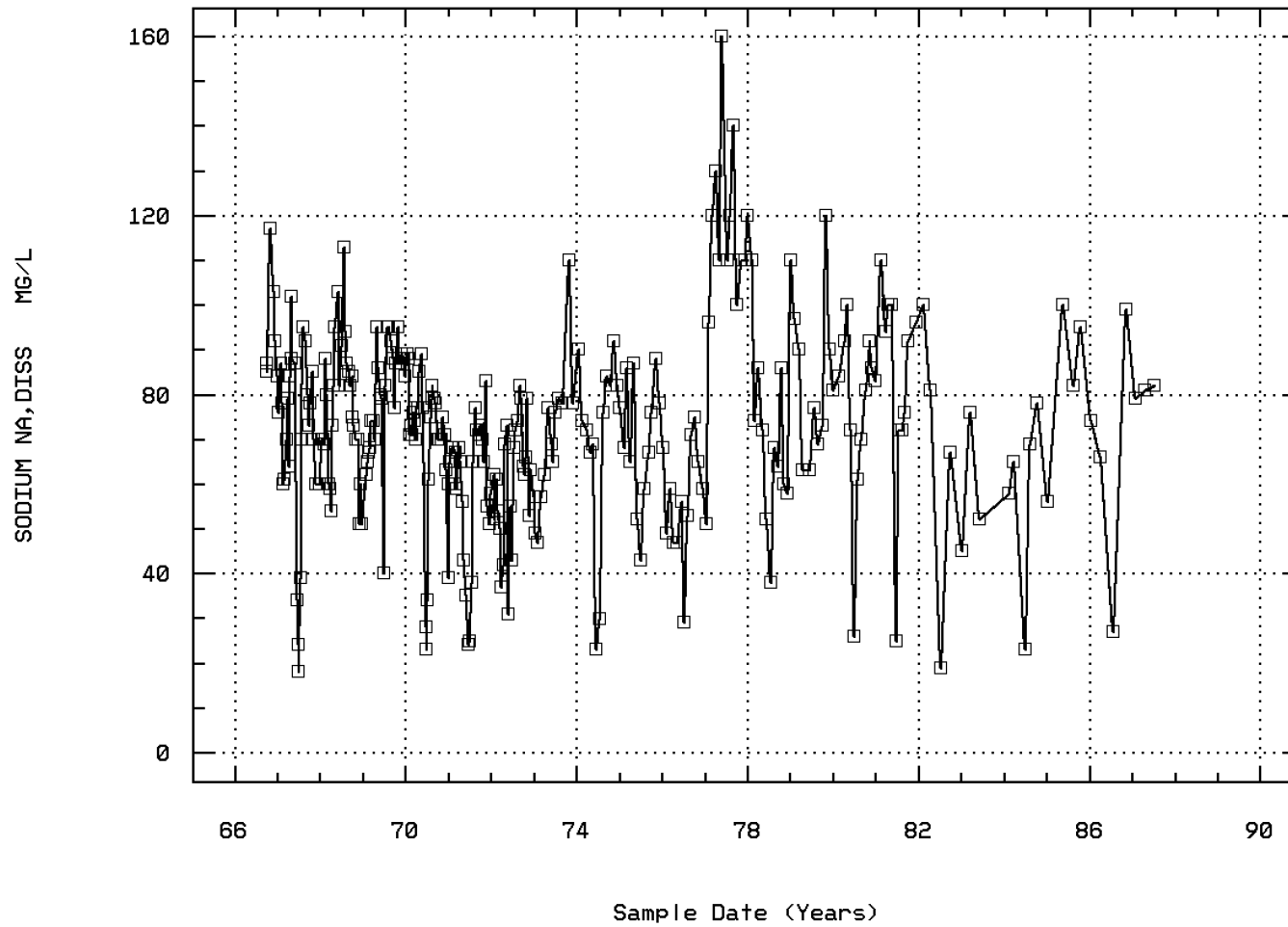
MAGNESIUM, DISSOLVED (MG/L AS MG)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00930

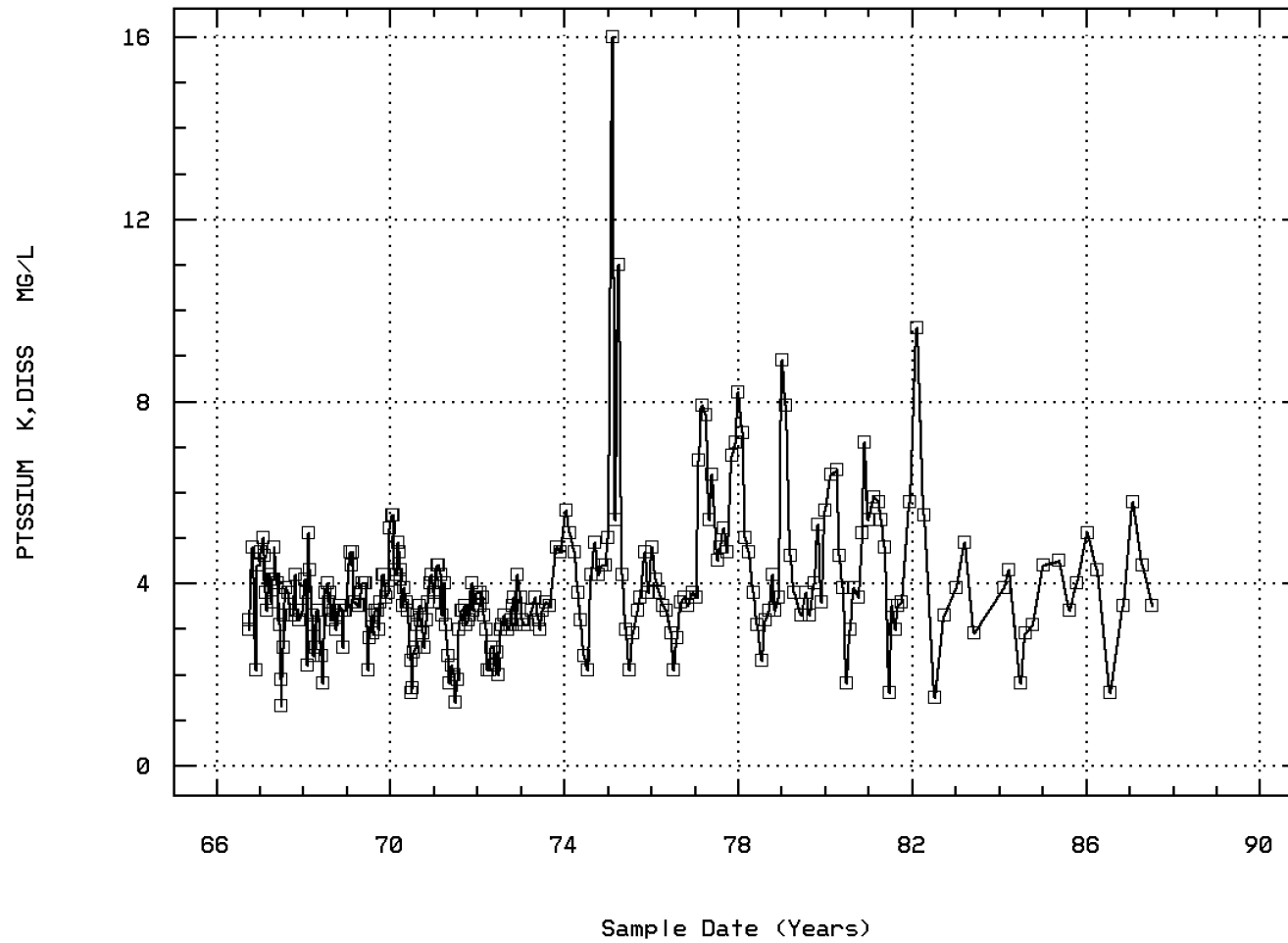
SODIUM, DISSOLVED (MG/L AS NA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00935

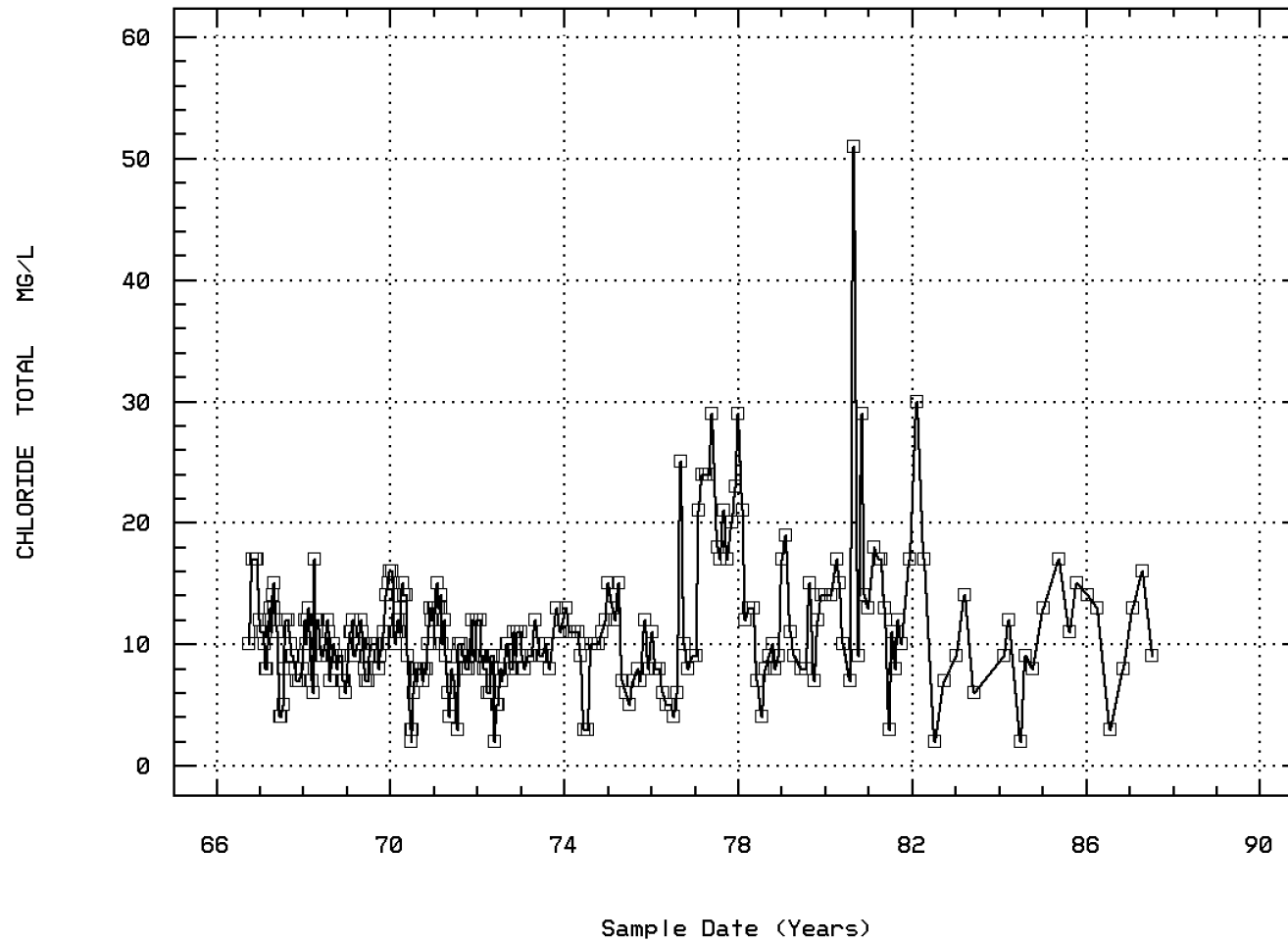
POTASSIUM, DISSOLVED (MG/L AS K)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00940

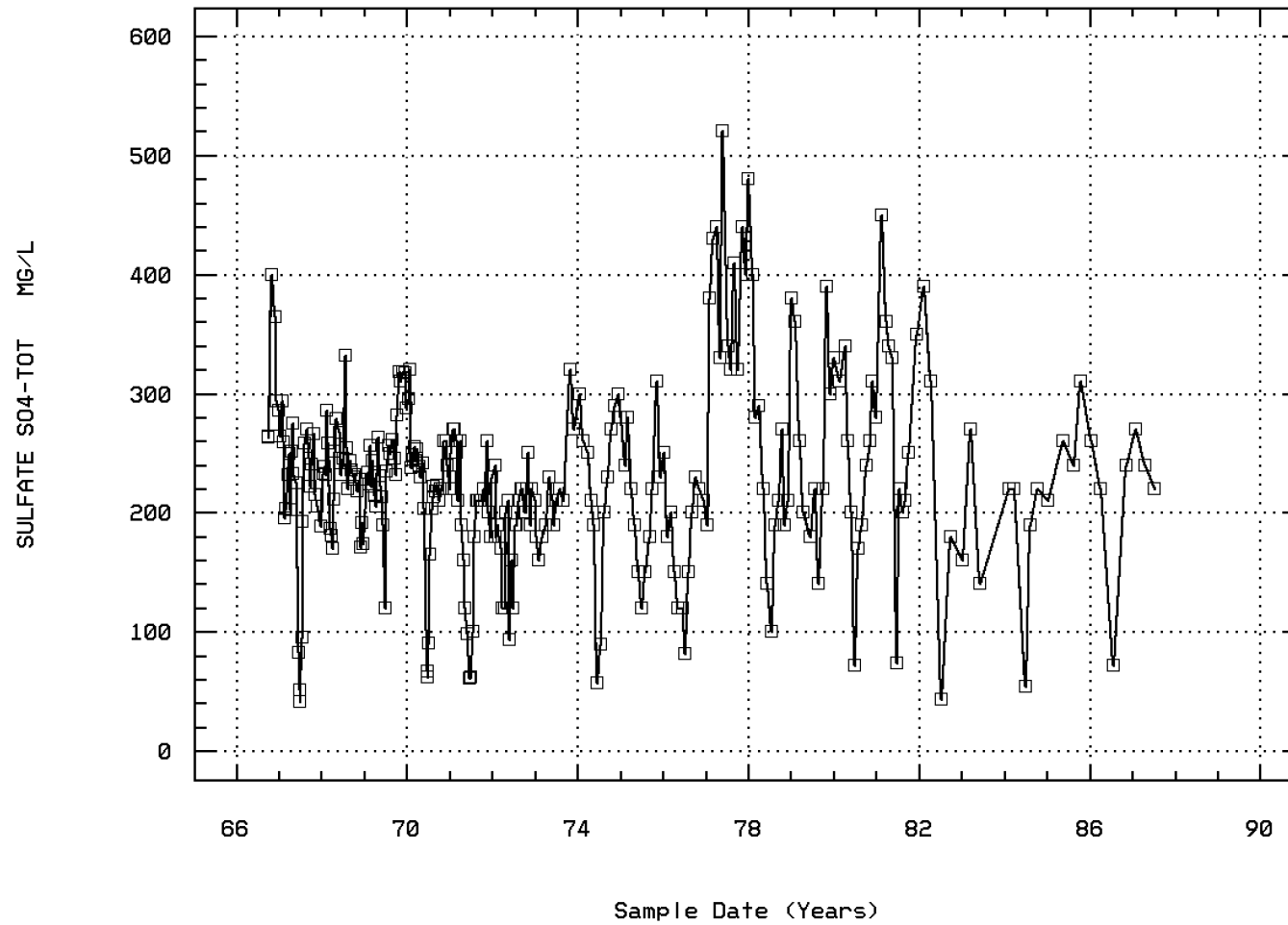
CHLORIDE, TOTAL IN WATER



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00945

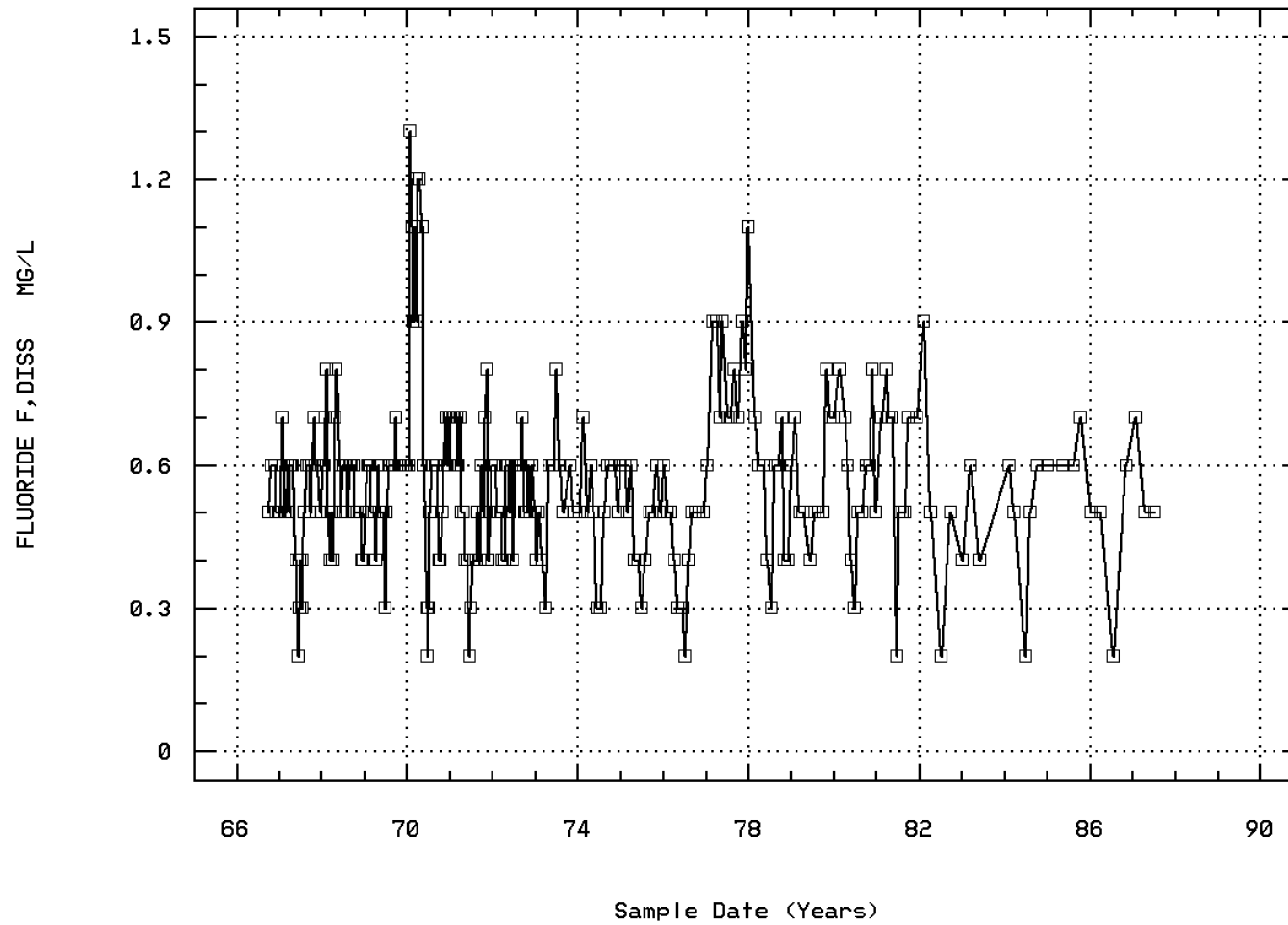
SULFATE, TOTAL (MG/L AS SO₄)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00950

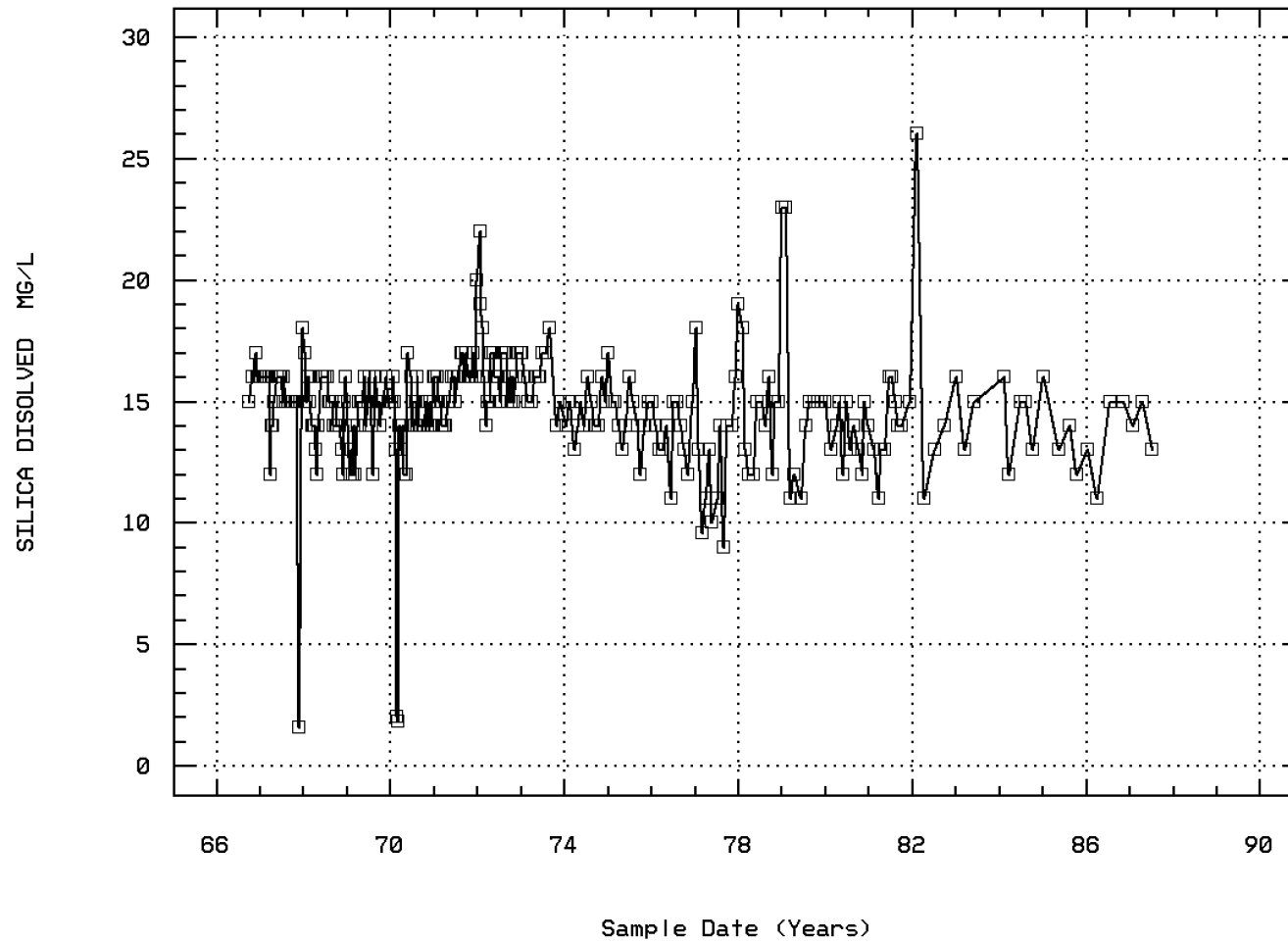
FLUORIDE, DISSOLVED (MG/L AS F)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00955

SILICA, DISSOLVED (MG/L AS SI02)

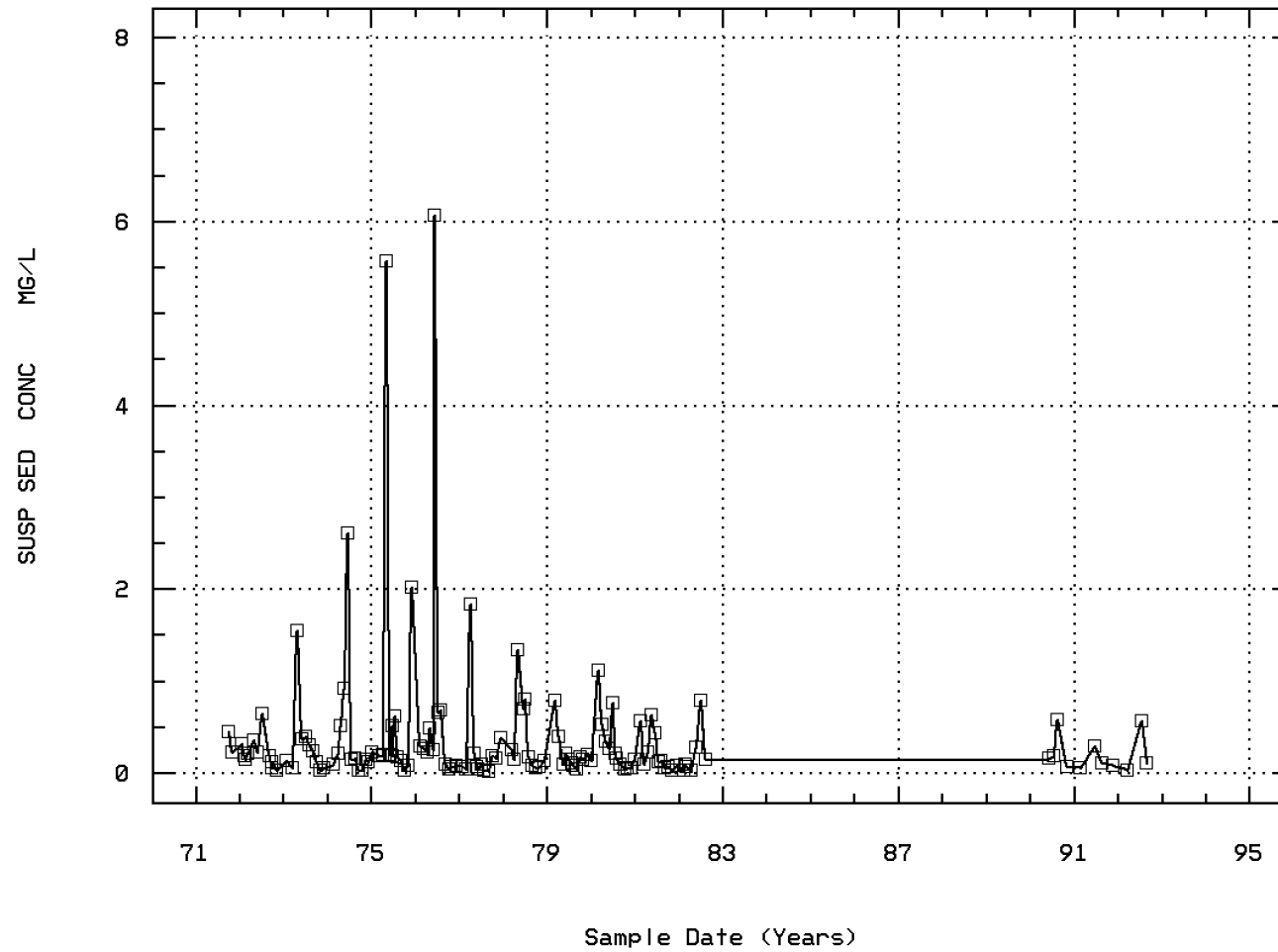


SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1

(X 1000)



SHOSHONE RIVER NEAR LOVELL WYO

Annual Analysis for 1966 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|--------|---------|---------|---------|----------|-----------|---------|------|------|------|
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 5 | 698. | 729.8 | 881. | 548. | 20230.2 | 142.233 | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 5 | 1050. | 1037.4 | 1200. | 874. | 24367.8 | 156.102 | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 5 | 7.9 | 7.88 | 8.1 | 7.5 | 0.052 | 0.228 | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 5 | 7.9 | 7.825 | 8.1 | 7.5 | 0.056 | 0.236 | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 5 | 0.013 | 0.015 | 0.032 | 0.008 | 0. | 0.01 | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 5 | 224. | 211.8 | 237. | 182. | 667.2 | 25.83 | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 5 | 273. | 258.4 | 289. | 222. | 992.8 | 31.509 | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 5 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 5 | 372. | 351. | 420. | 273. | 4700. | 68.557 | ** | ** | ** |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 5 | 148. | 139. | 183. | 91. | 1824.5 | 42.714 | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 5 | 90. | 88.4 | 105. | 72. | 257.3 | 16.041 | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 5 | 36. | 31.6 | 38. | 23. | 49.3 | 7.021 | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 5 | 92. | 96.8 | 117. | 85. | 176.2 | 13.274 | ** | ** | ** |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 5 | 2.2 | 2.26 | 2.5 | 2.1 | 0.023 | 0.152 | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 5 | 38. | 37.6 | 41. | 35. | 6.8 | 2.608 | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 5 | 3.2 | 3.5 | 4.8 | 2.1 | 1.2 | 1.095 | ** | ** | ** |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 5 | 17. | 14.2 | 17. | 10. | 14.7 | 3.834 | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 5 | 294. | 317. | 400. | 263. | 3838. | 61.952 | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 5 | 0.5 | 0.54 | 0.6 | 0.5 | 0.003 | 0.055 | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 5 | 16. | 15.8 | 17. | 15. | 0.7 | 0.837 | ** | ** | ** |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 5 | 190. | 214. | 270. | 170. | 2230. | 47.223 | ** | ** | ** |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-05/16/72 | 5 | 736. | 730.2 | 867. | 598. | 15914.2 | 126.151 | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 5 | 1400.01 | 1406.01 | 1630.01 | 1250.01 | 21930. | 148.088 | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 5 | 1. | 0.994 | 1.18 | 0.81 | 0.03 | 0.173 | ** | ** | ** |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 5 | 3.6 | 3.66 | 4.8 | 2.1 | 1.283 | 1.133 | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1967 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|--------|---------|----------|---------|----------|-------------|----------|-------|---------|---------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 3 | 12. | 11.767 | 16.1 | 7.2 | 19.843 | 4.455 | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 27 | 849. | 1559.963 | 8660. | 516. | 4224624.345 | 2055.389 | 585.8 | 680. | 1062. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 27 | 810. | 766.407 | 1010. | 270. | 39027.405 | 197.554 | 378.8 | 748. | 874. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 27 | 7.9 | 7.885 | 8.2 | 7.5 | 0.03 | 0.173 | 7.6 | 7.8 | 8. |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 27 | 7.9 | 7.851 | 8.2 | 7.5 | 0.031 | 0.176 | 7.6 | 7.8 | 8. |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 27 | 0.013 | 0.014 | 0.032 | 0.006 | 0. | 0.006 | 0.008 | 0.01 | 0.016 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 26 | 178. | 173.423 | 229. | 90. | 1352.254 | 36.773 | 102.6 | 165.75 | 194.25 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 27 | 216. | 211.444 | 279. | 110. | 1938.487 | 44.028 | 126. | 203. | 235. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 27 | 264. | 256.037 | 376. | 96. | 5135.652 | 71.663 | 121.6 | 240. | 296. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 27 | 87. | 82.519 | 149. | 5. | 1314.567 | 36.257 | 13.4 | 70. | 103. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 27 | 70. | 67.333 | 93. | 28. | 269.769 | 16.425 | 35. | 62. | 76. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 27 | 21. | 21.474 | 44. | 4. | 71.795 | 8.473 | 7.54 | 19. | 24. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 27 | 78. | 71.222 | 102. | 18. | 445.564 | 21.108 | 32. | 61. | 85. |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 27 | 1.9 | 1.93 | 2.7 | 0.8 | 0.203 | 0.45 | 1.26 | 1.6 | 2.2 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 26 | 36. | 36.962 | 45. | 27. | 21.638 | 4.652 | 32. | 33. | 40.25 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 27 | 3.8 | 3.689 | 5. | 1.3 | 0.701 | 0.837 | 2.46 | 3.3 | 4.2 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 27 | 10. | 9.37 | 15. | 1. | 11.011 | 3.318 | 4. | 8. | 12. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 27 | 233. | 215.556 | 294. | 41. | 4785.795 | 69.179 | 76.6 | 202. | 264. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 27 | 0.6 | 0.526 | 0.7 | 0.2 | 0.016 | 0.126 | 0.3 | 0.5 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 27 | 15. | 14.763 | 16. | 1.6 | 7.732 | 2.781 | 13.6 | 15. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 27 | 140. | 141.852 | 240. | 20. | 2769.516 | 52.626 | 40. | 130. | 180. |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-05/16/72 | 27 | 550. | 522. | 713. | 166. | 20472.923 | 143.084 | 247.8 | 505. | 612. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 6 | 525.5 | 537.833 | 598. | 474. | 2648.967 | 51.468 | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 27 | 1240.01 | 1530.156 | 3880.01 | 822. | 672537.844 | 820.084 | 958.2 | 1140.01 | 1510.01 |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 27 | 0.75 | 0.71 | 0.97 | 0.23 | 0.037 | 0.194 | 0.338 | 0.69 | 0.83 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1967 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|-------|------|
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 26 | 1.8 | 1.527 | 4.5 | 0. | 1.355 | 1.164 | 0.07 | 0.3 | 2.125 | 3. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1968 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|-------|---------|---------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 2 | 12.5 | 12.5 | 15. | 10. | 12.5 | 3.536 | ** | ** | ** | ** |
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 28 | 878.5 | 834. | 1280. | 306. | 71642.889 | 267.662 | 407.6 | 631. | 1004.25 | 1180. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 28 | 793. | 798.036 | 1030. | 610. | 9444.258 | 97.182 | 664.7 | 733.75 | 853. | 917.5 |
| 00400 PH (STANDARD UNITS) | 10/01/66-04/14/97 | 28 | 8. | 7.943 | 8.3 | 7.5 | 0.046 | 0.215 | 7.6 | 7.8 | 8.1 | 8.21 |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 28 | 8. | 7.891 | 8.3 | 7.5 | 0.049 | 0.221 | 7.6 | 7.8 | 8.1 | 8.21 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 28 | 0.01 | 0.013 | 0.032 | 0.005 | 0. | 0.007 | 0.006 | 0.008 | 0.016 | 0.025 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 28 | 172.5 | 174.643 | 228. | 98. | 568.979 | 23.853 | 157.8 | 166. | 181.5 | 205.8 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 28 | 208.5 | 212.393 | 278. | 113. | 898.988 | 29.983 | 192.3 | 202. | 221.25 | 251. |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 28 | 0. | 0.214 | 3. | 0. | 0.619 | 0.787 | 0. | 0. | 0. | 0.3 |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 28 | 248. | 261.893 | 358. | 204. | 1297.062 | 36.015 | 232.7 | 239.25 | 280.5 | 317.4 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 28 | 79. | 87.25 | 141. | 44. | 497.528 | 22.305 | 65.7 | 72.25 | 106.5 | 118.3 |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 28 | 70. | 72.857 | 99. | 57. | 93.757 | 9.683 | 62.6 | 68. | 76. | 88.1 |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 28 | 19. | 19.5 | 27. | 12. | 15.741 | 3.967 | 15. | 16. | 23. | 26. |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 28 | 74. | 76.107 | 113. | 51. | 242.396 | 15.569 | 53.7 | 62.25 | 86.5 | 95.8 |
| 00931p SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 28 | 2. | 2.046 | 2.9 | 1.4 | 0.173 | 0.416 | 1.5 | 1.7 | 2.3 | 2.71 |
| 00932p SODIUM, PERCENT | 10/01/66-03/21/83 | 28 | 38. | 38.214 | 48. | 32. | 25.73 | 5.072 | 32. | 34. | 42. | 45.3 |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 28 | 3.4 | 3.321 | 5.1 | 1.8 | 0.463 | 0.681 | 2.38 | 3.025 | 3.75 | 4.12 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 28 | 9. | 9.643 | 17. | 6. | 5.942 | 2.438 | 6.9 | 8. | 11.75 | 12.1 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 28 | 232. | 229.286 | 332. | 170. | 1403.397 | 37.462 | 173.7 | 196.75 | 249.75 | 279.7 |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 28 | 0.5 | 0.554 | 0.8 | 0.4 | 0.011 | 0.107 | 0.4 | 0.5 | 0.6 | 0.71 |
| 00955p SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 28 | 15. | 14.786 | 18. | 12. | 1.952 | 1.397 | 12.9 | 14. | 16. | 16.1 |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 28 | 130. | 132.857 | 190. | 70. | 895.238 | 29.921 | 90. | 110. | 157.5 | 170. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 10/01/66-05/16/72 | 28 | 541. | 540.143 | 710. | 412. | 5287.386 | 72.714 | 444.6 | 494.5 | 579.5 | 638.4 |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 28 | 532.5 | 535. | 702. | 403. | 4717.63 | 68.685 | 446. | 487. | 572.5 | 619.2 |
| 70302p SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 28 | 1230.01 | 1183.933 | 1710.01 | 454. | 100586.483 | 317.154 | 679.4 | 932.003 | 1385. | 1608. |
| 70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 28 | 0.735 | 0.735 | 0.97 | 0.56 | 0.01 | 0.1 | 0.608 | 0.67 | 0.79 | 0.869 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 28 | 2.5 | 5.664 | 90. | 0.4 | 275.529 | 16.599 | 0.98 | 1.225 | 3.4 | 5.96 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|--------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 24 | 801.5 | 944.625 | 2350. | 406. | 247985.549 | 497.981 | 599. | 691.5 | 905.75 | 2050. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 24 | 826. | 813.042 | 1020. | 468. | 19231.52 | 138.678 | 581.5 | 748.5 | 876.75 | 1005.5 |
| 00400 PH (STANDARD UNITS) | 10/01/66-04/14/97 | 24 | 8.05 | 7.987 | 8.5 | 7.3 | 0.112 | 0.335 | 7.35 | 7.8 | 8.2 | 8.45 |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 24 | 8.047 | 7.848 | 8.5 | 7.3 | 0.133 | 0.364 | 7.35 | 7.8 | 8.2 | 8.45 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 24 | 0.009 | 0.014 | 0.05 | 0.003 | 0. | 0.014 | 0.004 | 0.006 | 0.016 | 0.045 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 24 | 181.5 | 178.25 | 223. | 108. | 907.152 | 30.119 | 126.5 | 163.25 | 203.75 | 217.5 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 24 | 221.5 | 216.042 | 272. | 124. | 1501.607 | 38.751 | 150.5 | 198.25 | 248.5 | 265. |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 24 | 0. | 0.667 | 6. | 0. | 2.667 | 1.633 | 0. | 0. | 0. | 4. |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 24 | 265. | 269.792 | 376. | 148. | 3690.259 | 60.748 | 166.5 | 236.5 | 314. | 361.5 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 24 | 85. | 91.542 | 153. | 40. | 1028.607 | 32.072 | 40. | 72. | 114. | 144. |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 24 | 69.5 | 71. | 98. | 38. | 257.652 | 16.052 | 45. | 63.25 | 84.75 | 95.5 |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 24 | 23. | 22.542 | 32. | 13. | 27.042 | 5.2 | 13. | 19.25 | 25. | 30. |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 24 | 81. | 78.125 | 95. | 40. | 241.332 | 15.535 | 51. | 68.5 | 88.75 | 95. |
| 00931p SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 24 | 2.05 | 2.075 | 2.6 | 1.4 | 0.145 | 0.381 | 1.45 | 1.75 | 2.4 | 2.55 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 24 | 39. | 38.583 | 48. | 30. | 24.949 | 4.995 | 31. | 34.25 | 43. | 44.5 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 24 | 3.6 | 3.596 | 4.7 | 2.1 | 0.458 | 0.677 | 2.45 | 3.325 | 4. | 4.55 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 24 | 10. | 10. | 15. | 7. | 4. | 2. | 7. | 9. | 11. | 13. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 24 | 239.5 | 240. | 318. | 120. | 2656.174 | 51.538 | 155. | 216. | 262.5 | 317.5 |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 24 | 0.6 | 0.542 | 0.7 | 0.3 | 0.009 | 0.097 | 0.35 | 0.5 | 0.6 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 24 | 15. | 14.375 | 16. | 12. | 1.723 | 1.313 | 12. | 14. | 15. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 24 | 130. | 133.333 | 200. | 60. | 1805.797 | 42.495 | 70. | 110. | 157.5 | 200. |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 10/01/66-05/16/72 | 24 | 568. | 551.417 | 718. | 306. | 10194.949 | 100.97 | 381. | 512.5 | 590. | 690. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 24 | 554.5 | 549.25 | 708. | 301. | 10376.196 | 101.864 | 375. | 505.75 | 592. | 693. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 24 | 1265. | 1303.459 | 2160. | 647. | 124739.456 | 353.185 | 894.5 | 1013. | 1462.5 | 1940. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 24 | 0.775 | 0.75 | 0.98 | 0.42 | 0.019 | 0.137 | 0.52 | 0.7 | 0.8 | 0.94 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 24 | 2.3 | 2.271 | 4.3 | 0.4 | 1.047 | 1.023 | 0.8 | 1.525 | 3.05 | 3.7 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1970 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 5 | 6. | 8.5 | 20.5 | 3. | 49.125 | 7.009 | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 32 | 751.5 | 1211.656 | 8670. | 508. | 2350228.362 | 1533.045 | 618.5 | 711. | 1025. | 2116. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 29 | 834. | 791.759 | 1110. | 299. | 32351.904 | 179.866 | 388. | 749. | 879.5 | 1010. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 29 | 8.1 | 8.076 | 8.4 | 7.8 | 0.022 | 0.148 | 7.9 | 8. | 8.2 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 29 | 8.1 | 8.052 | 8.4 | 7.8 | 0.023 | 0.15 | 7.9 | 8. | 8.2 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 29 | 0.008 | 0.009 | 0.016 | 0.004 | 0. | 0.003 | 0.006 | 0.006 | 0.01 | 0.013 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 29 | 175. | 183.207 | 266. | 88. | 1706.099 | 41.305 | 116. | 165.5 | 212. | 241. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 29 | 213. | 222.655 | 324. | 107. | 2508.805 | 50.088 | 141. | 200.5 | 256.5 | 294. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 29 | 0. | 0.345 | 7. | 0. | 1.948 | 1.396 | 0. | 0. | 0. | 0. |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 1 | 0.11 | 0.11 | 0.11 | 0.11 | 0. | 0. | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 3 | 0. | 0.003 | 0.01 | 0. | 0. | 0.006 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 29 | 260. | 272.931 | 434. | 98. | 6089.424 | 78.035 | 132. | 235.5 | 329. | 371. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 29 | 88. | 89.724 | 168. | 10. | 1469.85 | 38.339 | 24. | 67.5 | 116. | 142. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 29 | 67. | 72.586 | 118. | 28. | 427.466 | 20.675 | 40. | 61.5 | 87. | 101. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 29 | 22. | 22.331 | 34. | 6.9 | 43.44 | 6.591 | 9. | 20. | 27. | 30. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 29 | 75. | 71. | 89. | 23. | 266.714 | 16.331 | 34. | 70. | 79. | 88. |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 29 | 1.9 | 1.879 | 2.4 | 1. | 0.12 | 0.346 | 1.3 | 1.7 | 2.1 | 2.3 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 29 | 36. | 36.069 | 43. | 29. | 21.424 | 4.629 | 31. | 32. | 41. | 43. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 29 | 3.6 | 3.641 | 5.5 | 1.6 | 1.033 | 1.016 | 2.3 | 3. | 4.25 | 5.2 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 29 | 10. | 9.966 | 16. | 2. | 14.463 | 3.803 | 3. | 8. | 13. | 15. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 29 | 238. | 221.379 | 320. | 62. | 3543.958 | 59.531 | 90. | 211.5 | 250.5 | 288. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 29 | 0.6 | 0.731 | 1.3 | 0.2 | 0.095 | 0.308 | 0.3 | 0.55 | 1.05 | 1.2 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 29 | 14. | 13.476 | 17. | 1.8 | 11.567 | 3.401 | 12. | 13.5 | 15. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 29 | 150. | 151.034 | 300. | 30. | 3109.606 | 55.764 | 60. | 130. | 165. | 230. |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 10/01/66-05/16/72 | 28 | 561. | 538.5 | 796. | 194. | 17736.185 | 133.177 | 247.6 | 502.5 | 602.5 | 691. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 29 | 559. | 528.172 | 761. | 192. | 16190.505 | 127.242 | 246. | 496.5 | 595. | 679. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 23 | 1190. | 1425.174 | 5710. | 798. | 959580.968 | 979.582 | 911. | 1090. | 1370. | 2036. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 29 | 0.75 | 0.73 | 1.08 | 0.26 | 0.032 | 0.179 | 0.34 | 0.68 | 0.815 | 0.94 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 29 | 2.5 | 2.714 | 5.2 | 0.4 | 1.471 | 1.213 | 1.4 | 1.8 | 3.65 | 4.7 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|-----------------------------------------|-------------------|--------|-------|----------|---------|----------|-------------|----------|-------|------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 10 | 11.25 | 9.9 | 22. | 0.5 | 45.767 | 6.765 | 0.55 | 3.25 | 14.125 | 21.25 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 35 | 990. | 1308.429 | 4810. | 523. | 1023566.076 | 1011.714 | 658.8 | 730. | 1260. | 2908. |

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Annual Analysis for 1971 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 26 | 755. | 694.769 | 904. | 282. | 32228.985 | 179.524 | 364.5 | 625.25 | 838.75 | 859.2 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 26 | 7.85 | 7.862 | 8.3 | 7. | 0.098 | 0.313 | 7.45 | 7.7 | 8.1 | 8.23 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 26 | 7.847 | 7.722 | 8.3 | 7. | 0.118 | 0.343 | 7.45 | 7.7 | 8.1 | 8.23 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 26 | 0.014 | 0.019 | 0.1 | 0.005 | 0. | 0.022 | 0.006 | 0.008 | 0.02 | 0.041 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 26 | 165.5 | 162.962 | 210. | 75. | 1499.318 | 38.721 | 98.1 | 146.75 | 200. | 206.5 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 26 | 202. | 198.808 | 256. | 92. | 2231.042 | 47.234 | 119.2 | 179.25 | 244. | 251.8 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 26 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 12 | 0.65 | 0.684 | 1.2 | 0.01 | 0.095 | 0.308 | 0.157 | 0.5 | 0.9 | 1.14 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 4 | 0.17 | 0.175 | 0.3 | 0.06 | 0.013 | 0.114 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 5 | 0.07 | 0.052 | 0.1 | 0. | 0.002 | 0.049 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 26 | 235. | 246.231 | 370. | 93. | 7111.225 | 84.328 | 120.7 | 190. | 325. | 360. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 26 | 71.5 | 83.615 | 160. | 10. | 2326.806 | 48.237 | 18.7 | 47. | 131.25 | 160. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 26 | 62. | 64.885 | 97. | 25. | 480.186 | 21.913 | 31.9 | 52.5 | 86.25 | 96. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 26 | 20. | 20.488 | 35. | 7.1 | 56.639 | 7.526 | 9.98 | 15.5 | 26.25 | 33.3 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 26 | 65. | 58.538 | 83. | 24. | 244.818 | 15.647 | 32. | 49. | 68.5 | 74.2 |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 26 | 1.6 | 1.646 | 2.2 | 0.9 | 0.116 | 0.341 | 1.1 | 1.475 | 2. | 2.1 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 26 | 35.5 | 34.385 | 42. | 19. | 33.446 | 5.783 | 26.7 | 29.75 | 39. | 41.3 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 26 | 3.4 | 3.258 | 4.4 | 1.4 | 0.71 | 0.842 | 1.87 | 2.85 | 4. | 4.26 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 26 | 9. | 9.385 | 15. | 1. | 11.366 | 3.371 | 3.7 | 8. | 12.25 | 13.3 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 26 | 210. | 196.192 | 270. | 61. | 3807.682 | 61.706 | 87.2 | 175. | 250. | 263. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 26 | 0.5 | 0.535 | 0.8 | 0.2 | 0.023 | 0.152 | 0.37 | 0.4 | 0.7 | 0.7 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 26 | 16. | 15.654 | 17. | 14. | 0.795 | 0.892 | 14. | 15. | 16. | 17. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 26 | 140. | 140.769 | 200. | 50. | 1535.385 | 39.184 | 80. | 117.5 | 172.5 | 190. |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 10/01/66-05/16/72 | 14 | 565. | 486.857 | 614. | 196. | 19803.516 | 140.725 | 231. | 380.5 | 590. | 612. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 26 | 491. | 468.692 | 620. | 189. | 16414.622 | 128.12 | 245.5 | 428.5 | 583.25 | 609.9 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 22 | 1405. | 1743.727 | 3770. | 704. | 841868.303 | 917.534 | 984.6 | 1040. | 2395. | 3418. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 26 | 0.67 | 0.639 | 0.84 | 0.26 | 0.03 | 0.172 | 0.333 | 0.588 | 0.785 | 0.816 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 14 | 2.05 | 2.036 | 3.9 | 1. | 0.573 | 0.757 | 1.15 | 1.375 | 2.425 | 3.35 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 2 | 338. | 338. | 448. | 228. | 24200. | 155.563 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 2 | 1112. | 1112. | 1430. | 794. | 202248. | 449.72 | ** | ** | ** | ** |

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Annual Analysis for 1972 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 13 | 10.5 | 9.692 | 18.5 | 0. | 54.689 | 7.395 | 0. | 1.25 | 17.75 | 18.5 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 37 | 952. | 1059.405 | 2810. | 681. | 170440.526 | 412.844 | 716.8 | 815.5 | 1095. | 1646. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 24 | 708. | 695.333 | 881. | 398. | 15733.623 | 125.434 | 479. | 667.25 | 765.25 | 857. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 24 | 7.75 | 7.75 | 8.4 | 6.5 | 0.149 | 0.386 | 7.3 | 7.6 | 8. | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 24 | 7.747 | 7.498 | 8.4 | 6.5 | 0.215 | 0.464 | 7.3 | 7.6 | 8. | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 24 | 0.018 | 0.032 | 0.316 | 0.004 | 0.004 | 0.062 | 0.006 | 0.01 | 0.025 | 0.056 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 24 | 160.5 | 157.042 | 210. | 104. | 650.129 | 25.498 | 115.5 | 145.75 | 170.5 | 189. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 24 | 195. | 191.167 | 256. | 127. | 956.493 | 30.927 | 141. | 177.75 | 207.5 | 230. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 24 | 0. | 0.125 | 3. | 0. | 0.375 | 0.612 | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 14 | 0.5 | 0.614 | 1.1 | 0.3 | 0.081 | 0.285 | 0.3 | 0.375 | 0.85 | 1.1 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 4 | 0.04 | 0.058 | 0.13 | 0.02 | 0.002 | 0.049 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 24 | 230. | 228.75 | 340. | 120. | 2533.152 | 50.33 | 155. | 210. | 250. | 300. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 24 | 70. | 71.458 | 130. | 19. | 728.172 | 26.985 | 36. | 49.5 | 90.75 | 110. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 24 | 60.5 | 60.708 | 93. | 35. | 168.563 | 12.983 | 42.5 | 56. | 65. | 79. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 24 | 19. | 18.738 | 26. | 8.7 | 19.323 | 4.396 | 11.5 | 17.25 | 21. | 25. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 24 | 62. | 60.375 | 82. | 31. | 182.071 | 13.493 | 39.5 | 52.25 | 71.25 | 79. |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 24 | 1.75 | 1.733 | 2.3 | 1.2 | 0.107 | 0.327 | 1.35 | 1.425 | 2. | 2.2 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 24 | 36.5 | 36.125 | 42. | 28. | 19.94 | 4.465 | 29. | 32. | 40.75 | 41.5 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 24 | 3.1 | 3.063 | 4.2 | 2. | 0.356 | 0.597 | 2.1 | 2.6 | 3.5 | 3.8 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 24 | 8. | 8.25 | 12. | 2. | 5.413 | 2.327 | 5. | 7.25 | 9.75 | 11.5 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 24 | 195. | 188.458 | 250. | 93. | 1650.085 | 40.621 | 120. | 172.5 | 220. | 235. |

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Annual Analysis for 1972 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|------------|---------|-------|--------|--------|
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 24 | 0.6 | 0.546 | 0.7 | 0.4 | 0.006 | 0.078 | 0.4 | 0.5 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 24 | 16. | 16.542 | 22. | 14. | 3.216 | 1.793 | 15. | 15. | 17. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 24 | 130. | 128.75 | 190. | 30. | 1350.543 | 36.75 | 75. | 112.5 | 175. |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-05/16/72 | 10 | 463. | 458.8 | 600. | 304. | 8461.511 | 91.986 | 305.8 | 407.5 | 596. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 24 | 465.5 | 453.667 | 590. | 252. | 7415.971 | 86.116 | 306.5 | 420.25 | 559.5 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 24 | 1330. | 1309.333 | 1910. | 906. | 56665.623 | 238.045 | 989. | 1125. | 1650. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 24 | 0.635 | 0.622 | 0.82 | 0.34 | 0.014 | 0.12 | 0.415 | 0.595 | 0.69 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-05/16/72 | 10 | 1.25 | 1.55 | 3.3 | 0.2 | 1.283 | 1.133 | 0.2 | 0.575 | 2.55 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 11 | 184. | 223.727 | 647. | 30. | 29261.018 | 171.059 | 34.8 | 117. | 589.2 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 11 | 426. | 682.909 | 3350. | 63. | 821479.491 | 906.355 | 75.2 | 302. | 2815.2 |

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Annual Analysis for 1973 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|--------|-------|----------|---------|----------|------------|---------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 13 | 8. | 8.923 | 22. | 0. | 58.785 | 7.667 | 0. | 1. | 15.75 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 21 | 1010. | 953.619 | 1300. | 524. | 44845.048 | 211.766 | 625.8 | 769. | 1138. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 3 | 738. | 799.333 | 1070. | 590. | 60421.333 | 245.808 | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 13 | 746. | 758.077 | 1040. | 566. | 16598.91 | 128.837 | 580.4 | 677. | 1002.4 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 13 | 8. | 7.938 | 8.2 | 7.5 | 0.039 | 0.198 | 7.58 | 7.8 | 8.1 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 13 | 8. | 7.892 | 8.2 | 7.5 | 0.042 | 0.204 | 7.58 | 7.8 | 8.1 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 13 | 0.01 | 0.013 | 0.032 | 0.006 | 0. | 0.007 | 0.007 | 0.008 | 0.016 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 13 | 168. | 175.923 | 219. | 148. | 448.077 | 21.168 | 152.8 | 162.5 | 217.8 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 13 | 205. | 214.308 | 267. | 180. | 668.731 | 25.86 | 186. | 198. | 265.4 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 13 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 6 | 0.8 | 0.767 | 1.1 | 0.3 | 0.103 | 0.32 | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 2 | 0.115 | 0.115 | 0.19 | 0.04 | 0.011 | 0.106 | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 10 | 0.04 | 0.041 | 0.06 | 0.02 | 0. | 0.019 | 0.02 | 0.02 | 0.06 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 13 | 240. | 257.692 | 360. | 220. | 1885.897 | 43.427 | 224. | 235. | 352. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 13 | 71. | 81.923 | 150. | 59. | 691.577 | 26.298 | 60.2 | 66. | 138. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 13 | 65. | 67.692 | 97. | 54. | 138.897 | 11.785 | 56. | 60. | 92.2 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 13 | 19. | 21.385 | 30. | 18. | 16.59 | 4.073 | 18. | 19. | 29.6 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 13 | 69. | 69.538 | 110. | 47. | 274.103 | 16.556 | 47.8 | 57. | 97.6 |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 13 | 1.8 | 1.892 | 2.6 | 1.3 | 0.146 | 0.382 | 1.34 | 1.55 | 2.2 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 13 | 37. | 36.538 | 42. | 30. | 22.436 | 4.737 | 30. | 31. | 41.6 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 13 | 3.4 | 3.569 | 4.8 | 3. | 0.327 | 0.572 | 3.04 | 3.15 | 4.76 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 13 | 9. | 9.846 | 13. | 8. | 2.308 | 1.519 | 8. | 9. | 12.6 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 13 | 210. | 213.846 | 320. | 160. | 1758.974 | 41.94 | 168. | 185. | 300. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 13 | 0.5 | 0.531 | 0.8 | 0.3 | 0.016 | 0.125 | 0.34 | 0.45 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 13 | 16. | 16.077 | 18. | 14. | 1.244 | 1.115 | 14.4 | 15. | 17.6 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 13 | 140. | 150. | 200. | 130. | 550. | 23.452 | 130. | 130. | 192. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 13 | 494. | 509.692 | 713. | 419. | 6849.397 | 82.761 | 429.4 | 449.5 | 683. |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 13 | 1230. | 1194.692 | 1790. | 743. | 71658.897 | 267.692 | 797.8 | 969. | 1622. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 13 | 0.67 | 0.694 | 0.97 | 0.57 | 0.013 | 0.113 | 0.586 | 0.61 | 0.93 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 10 | 186.5 | 320.9 | 1540. | 22. | 201052.1 | 448.388 | 25. | 52.75 | 1424.9 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 10 | 448. | 727.9 | 3210. | 35. | 865478.544 | 930.311 | 41.8 | 145.75 | 2995. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|--------|------|---------|---------|----------|-----------|-------|------|------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 12 | 8.75 | 9.958 | 23.5 | 0.5 | 47.839 | 6.917 | 1.1 | 4.5 | 21.55 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|---------------|-----------|-------|--------|---------|--------|
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 12 | 702. | 1779.417 | 11500. | 604. | 9661018.447 | 3108.218 | 608.2 | 635.5 | 1049.75 | 8812. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 11 | 850. | 764.818 | 1010. | 289. | 52467.564 | 229.058 | 308.4 | 734. | 895. | 1004.4 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 8 | 7.85 | 7.813 | 8.2 | 7.3 | 0.09 | 0.3 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 8 | 7.847 | 7.718 | 8.2 | 7.3 | 0.1 | 0.316 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 8 | 0.014 | 0.019 | 0.05 | 0.006 | 0. | 0.014 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 12 | 183.5 | 178.333 | 227. | 84. | 2113.152 | 45.969 | 88.2 | 168.75 | 211.75 | 226.4 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 12 | 220. | 216.667 | 277. | 103. | 3114.424 | 55.807 | 107.8 | 205.75 | 257.75 | 276.1 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 9 | 0. | 0.444 | 4. | 0. | 1.778 | 1.333 | 0. | 0. | 0. | 4. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 12 | 0.65 | 0.675 | 1. | 0.2 | 0.064 | 0.253 | 0.26 | 0.5 | 0.9 | 1. |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 10 | 0.115 | 0.185 | 0.66 | 0.005 | 0.04 | 0.2 | 0.007 | 0.05 | 0.265 | 0.631 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 12 | 270. | 264.25 | 370. | 91. | 8049.477 | 89.719 | 99.7 | 222.5 | 337.5 | 367. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 12 | 88.5 | 86.75 | 150. | 7. | 2020.75 | 44.953 | 12.7 | 53.5 | 127.5 | 147. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 12 | 70.5 | 70.25 | 99. | 26. | 573.477 | 23.947 | 28.1 | 57.25 | 90. | 98.7 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 12 | 24. | 21.692 | 30. | 6.4 | 52.603 | 7.253 | 7.45 | 19.25 | 26.75 | 29.7 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 12 | 75. | 70.083 | 92. | 23. | 476.629 | 21.832 | 25.1 | 67.5 | 83.5 | 91.4 |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 12 | 1.95 | 1.867 | 2.3 | 1. | 0.153 | 0.392 | 1.06 | 1.8 | 2.1 | 2.27 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 12 | 35.5 | 36.167 | 41. | 32. | 10.697 | 3.271 | 32. | 33.25 | 39.5 | 41. |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 12 | 4.3 | 4.083 | 5.6 | 2.1 | 1.112 | 1.055 | 2.19 | 3.35 | 4.85 | 5.45 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 12 | 10.5 | 9.5 | 13. | 3. | 10.273 | 3.205 | 3. | 9.25 | 11. | 12.7 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 12 | 240. | 220.5 | 300. | 57. | 6175.182 | 78.582 | 66.6 | 192.5 | 285. | 300. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 12 | 0.5 | 0.517 | 0.7 | 0.3 | 0.014 | 0.119 | 0.3 | 0.5 | 0.6 | 0.67 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 12 | 14.5 | 14.583 | 16. | 13. | 0.811 | 0.9 | 13.3 | 14. | 15. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 12 | 155. | 144.167 | 210. | 50. | 2135.606 | 46.213 | 56. | 130. | 177.5 | 201. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 12 | 565.5 | 521.667 | 682. | 186. | 26013.697 | 161.288 | 203.4 | 473.75 | 656. | 681.7 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 12 | 1175. | 1580.917 | 5780. | 829. | 1804744.992 | 1343.408 | 844.9 | 1085. | 1480. | 4547. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 12 | 0.77 | 0.71 | 0.93 | 0.25 | 0.049 | 0.22 | 0.274 | 0.648 | 0.89 | 0.93 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 11 | 139. | 450.455 | 2600. | 24. | 577110.273 | 759.678 | 25.2 | 92. | 512. | 2263.8 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 11 | 388. | 7887.182 | 80700. | 43. | 583775672.564 | 24161.45 | 44.2 | 175. | 953. | 65106. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 16 | 11.5 | 10.469 | 23. | 0. | 56.316 | 7.504 | 0. | 2.875 | 16.875 | 21.95 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 19 | 909. | 1202.474 | 5330. | 534. | 1252665.041 | 1119.225 | 590. | 640. | 1120. | 2490. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 10 | 810. | 830.6 | 1100. | 556. | 32274.711 | 179.652 | 564.4 | 655. | 975. | 1095. |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 12 | 182. | 179.75 | 231. | 118. | 1720.205 | 41.475 | 120.4 | 143.75 | 225.5 | 230.4 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 12 | 221.5 | 219.083 | 282. | 144. | 2562.265 | 50.619 | 146.7 | 175.25 | 275. | 281.1 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 12 | 0.6 | 0.667 | 1.2 | 0.4 | 0.041 | 0.202 | 0.43 | 0.6 | 0.775 | 1.08 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 8 | 0.205 | 0.53 | 2.8 | 0.04 | 0.864 | 0.929 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 4 | 0.01 | 0.011 | 0.02 | 0.005 | 0. | 0.006 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 12 | 265. | 264.167 | 370. | 170. | 6117.424 | 78.214 | 170. | 177.5 | 347.5 | 367. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 12 | 82. | 83.417 | 140. | 24. | 1368.629 | 36.995 | 31.2 | 48.25 | 120. | 134. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 12 | 69.5 | 69.833 | 99. | 45. | 451.788 | 21.255 | 45. | 46.5 | 93. | 98.1 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 12 | 23. | 21.833 | 30. | 13. | 39.606 | 6.293 | 13. | 15.5 | 28. | 29.7 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 12 | 72. | 70.5 | 88. | 43. | 202.455 | 14.229 | 45.7 | 60.5 | 84. | 87.7 |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 12 | 1.9 | 1.925 | 2.9 | 1.5 | 0.129 | 0.36 | 1.53 | 1.7 | 2. | 2.66 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 12 | 36.5 | 36.917 | 53. | 29. | 36.811 | 6.067 | 29.9 | 32.5 | 39. | 48.8 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 12 | 4. | 5.433 | 16. | 2.1 | 16.195 | 4.024 | 2.34 | 3.1 | 5.3 | 14.5 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 12 | 8. | 9.583 | 15. | 5. | 12.811 | 3.579 | 5.3 | 7. | 12.75 | 15. |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 12 | 220. | 214.167 | 310. | 120. | 3426.515 | 58.536 | 129. | 157.5 | 270. | 301. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 12 | 0.5 | 0.492 | 0.6 | 0.3 | 0.01 | 0.1 | 0.33 | 0.4 | 0.6 | 0.6 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 12 | 14.5 | 14.5 | 17. | 12. | 1.727 | 1.314 | 12.3 | 14. | 15. | 16.7 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 12 | 150. | 149.167 | 200. | 90. | 1935.606 | 43.996 | 90. | 110. | 197.5 | 200. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 12 | 527.5 | 517.333 | 699. | 317. | 15762.061 | 125.547 | 330.8 | 407.75 | 647.5 | 687.6 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|--------|
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 12 | 1145. | 1185.75 | 1760. | 921. | 53777.114 | 231.899 | 935.7 | 1003.5 | 1322.5 | 1652. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 12 | 0.715 | 0.703 | 0.95 | 0.43 | 0.029 | 0.171 | 0.448 | 0.558 | 0.883 | 0.935 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 13 | 200. | 778.692 | 5570. | 28. | 2343385.397 | 1530.812 | 48.8 | 151.5 | 566.5 | 4150. |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 13 | 527. | 3039.769 | 17400. | 52. | 26081553.359 | 5107.01 | 92.4 | 286.5 | 4790. | 13992. |

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Annual Analysis for 1976 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|---------------|-----------|-------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 22 | 11.25 | 10.705 | 19. | 0. | 31.325 | 5.597 | 1.3 | 7.375 | 16. | 18.05 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 24 | 1080. | 1725.833 | 7000. | 600. | 2310437.797 | 1520.012 | 820. | 848.75 | 1842.5 | 4280. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 13 | 710. | 649.846 | 930. | 340. | 30806.974 | 175.519 | 372. | 480. | 790. | 878. |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 12 | 171. | 159.417 | 224. | 85. | 1561.72 | 39.519 | 88.6 | 136.5 | 183.25 | 214.4 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 12 | 208.5 | 194.333 | 273. | 104. | 2319.515 | 48.161 | 108.2 | 166. | 223.75 | 261.3 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 12 | 0.7 | 0.683 | 1.1 | 0.2 | 0.074 | 0.272 | 0.26 | 0.425 | 0.9 | 1.07 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 11 | 0.12 | 0.138 | 0.33 | 0.03 | 0.009 | 0.094 | 0.032 | 0.05 | 0.2 | 0.308 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 12 | 0.01 | 0.011 | 0.02 | 0.005 | 0. | 0.006 | 0.005 | 0.005 | 0.018 | 0.02 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 12 | 255. | 222.167 | 340. | 86. | 5027.242 | 70.903 | 96.2 | 170. | 260. | 316. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 12 | 73. | 63.083 | 120. | 1. | 1152.629 | 33.95 | 6.4 | 32.75 | 86.25 | 110.4 |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 12 | 66. | 59. | 92. | 23. | 370. | 19.235 | 25.4 | 44.75 | 70.5 | 85.7 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 12 | 20.5 | 18.175 | 27. | 6.9 | 34.935 | 5.911 | 7.59 | 14.5 | 22. | 25.8 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 12 | 57.5 | 56.5 | 75. | 29. | 161.364 | 12.703 | 34.4 | 47.5 | 67.25 | 73.8 |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 12 | 1.6 | 1.683 | 2.6 | 1.2 | 0.14 | 0.374 | 1.23 | 1.45 | 1.925 | 2.42 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 12 | 34.5 | 36.167 | 58. | 29. | 57.424 | 7.578 | 29.3 | 32. | 38. | 52.3 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 12 | 3.55 | 3.5 | 4.8 | 2.1 | 0.464 | 0.681 | 2.31 | 3.025 | 3.8 | 4.59 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 12 | 8. | 8.75 | 25. | 4. | 30.75 | 5.545 | 4.3 | 5.25 | 9.75 | 20.8 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 12 | 190. | 176. | 250. | 82. | 2646.545 | 51.445 | 93.4 | 127.5 | 217.5 | 244. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 12 | 0.5 | 0.433 | 0.6 | 0.2 | 0.013 | 0.115 | 0.23 | 0.325 | 0.5 | 0.57 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 12 | 14. | 13.667 | 15. | 11. | 1.697 | 1.303 | 11.3 | 13. | 15. | 15. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 1 | 170. | 170. | 170. | 170. | 0. | 0. | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 12 | 477. | 434.75 | 606. | 232. | 12563.114 | 112.085 | 246.4 | 343. | 510. | 582.9 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 12 | 1335. | 1677.667 | 5290. | 982. | 1379058.061 | 1174.333 | 993.4 | 1102.5 | 1712.5 | 4261. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 12 | 0.65 | 0.592 | 0.82 | 0.32 | 0.023 | 0.152 | 0.338 | 0.468 | 0.698 | 0.79 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 12 | 257. | 765.417 | 6060. | 46. | 2827441.174 | 1681.5 | 53.2 | 80.25 | 608.5 | 4446.9 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 12 | 645. | 8098.833 | 81500. | 113. | 537548941.606 | 23185.102 | 145.1 | 242.25 | 2907.5 | 58934. |

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Annual Analysis for 1977 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-----------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 24 | 10. | 10.688 | 25. | 0. | 57.257 | 7.567 | 0. | 5. | 16.875 | 23. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 24 | 340.5 | 327.25 | 884. | 70. | 46112.196 | 214.738 | 88.5 | 146.75 | 439.25 | 655. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 12 | 1100. | 1131.667 | 1500. | 660. | 52869.697 | 229.934 | 732. | 1035. | 1350. | 1470. |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 12 | 230. | 232.333 | 310. | 180. | 1431.879 | 37.84 | 182.4 | 202.5 | 260.5 | 296.8 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 12 | 280. | 283.583 | 378. | 220. | 2113.72 | 45.975 | 222.7 | 245. | 319. | 361.8 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 10 | 1.1 | 1.1 | 1.7 | 0.7 | 0.102 | 0.32 | 0.7 | 0.85 | 1.325 | 1.67 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 11 | 0.09 | 0.128 | 0.44 | 0.03 | 0.014 | 0.118 | 0.032 | 0.05 | 0.17 | 0.394 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 11 | 0.02 | 0.015 | 0.03 | 0.005 | 0. | 0.009 | 0.005 | 0.005 | 0.02 | 0.028 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 12 | 425. | 412.5 | 510. | 270. | 7565.909 | 86.982 | 285. | 340. | 490. | 510. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 12 | 185. | 180.25 | 260. | 83. | 3055.295 | 55.275 | 91.1 | 135. | 227.5 | 254. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 12 | 108. | 105.667 | 140. | 74. | 466.788 | 21.605 | 76.4 | 86.5 | 120. | 137. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 12 | 37.5 | 36.083 | 45. | 21. | 68.992 | 8.306 | 23.1 | 28.5 | 44.5 | 45. |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 12 | 110. | 113.083 | 160. | 51. | 696.629 | 26.394 | 64.5 | 102.5 | 127.5 | 154. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|--------|--------|--------|
| 00931p SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 12 | 2.5 | 2.433 | 3.2 | 1.3 | 0.29 | 0.538 | 1.45 | 2.125 | 2.825 | 3.17 |
| 00932p SODIUM, PERCENT | 10/01/66-03/21/83 | 12 | 37.5 | 37. | 44. | 29. | 29.273 | 5.41 | 29. | 32.25 | 41.75 | 44. |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 12 | 5.9 | 5.908 | 7.9 | 3.7 | 1.87 | 1.367 | 3.94 | 4.725 | 7.025 | 7.84 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 12 | 21. | 20.583 | 29. | 9. | 25.356 | 5.035 | 11.4 | 17.25 | 24. | 27.5 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 12 | 390. | 376.667 | 520. | 190. | 7078.788 | 84.136 | 229. | 322.5 | 437.5 | 496. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 12 | 0.8 | 0.8 | 1. | 0.6 | 0.015 | 0.121 | 0.63 | 0.7 | 0.9 | 0.97 |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 12 | 13. | 12.717 | 18. | 9. | 7.327 | 2.707 | 9.18 | 10.25 | 14. | 17.4 |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 12 | 870. | 815.583 | 1040. | 484. | 22612.265 | 150.374 | 550.9 | 715.5 | 919.25 | 1009.4 |
| 70302p SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 12 | 813. | 734.583 | 1140. | 270. | 110047.538 | 331.734 | 273.3 | 389.5 | 1075. | 1134. |
| 70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 12 | 1.185 | 1.11 | 1.41 | 0.66 | 0.042 | 0.204 | 0.75 | 0.972 | 1.25 | 1.371 |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 12 | 83. | 259.167 | 1830. | 9. | 255933.242 | 505.898 | 13.5 | 40.25 | 200.5 | 1396.5 |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 12 | 70. | 267.508 | 2030. | 2.5 | 323726.895 | 568.97 | 3.76 | 10.675 | 212.5 | 1550.6 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 22 | 9. | 8.932 | 20. | 0. | 46.65 | 6.83 | 0. | 0.875 | 14.625 | 19.1 |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 22 | 832. | 1230.864 | 4740. | 400. | 1099264.123 | 1048.458 | 527.1 | 609. | 1310. | 2887. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 12 | 725. | 820.833 | 1350. | 450. | 76008.333 | 275.696 | 486. | 650. | 947.5 | 1335. |
| 00400 PH (STANDARD UNITS) | 10/01/66-04/14/97 | 7 | 8.3 | 8.286 | 8.4 | 8.2 | 0.008 | 0.09 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 7 | 8.3 | 8.278 | 8.4 | 8.2 | 0.008 | 0.09 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 7 | 0.005 | 0.005 | 0.006 | 0.004 | 0. | 0.001 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 12 | 170. | 195. | 320. | 110. | 4209.091 | 64.878 | 116. | 160. | 237.5 | 314. |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 12 | 210. | 237.5 | 390. | 130. | 6093.182 | 78.059 | 139. | 192.5 | 287.5 | 381. |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 7 | 0. | 0.286 | 1. | 0. | 0.238 | 0.488 | ** | ** | ** | ** |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 12 | 0.7 | 0.858 | 1.7 | 0.5 | 0.121 | 0.348 | 0.5 | 0.7 | 1. | 1.58 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 12 | 0.095 | 0.104 | 0.25 | 0.01 | 0.005 | 0.072 | 0.013 | 0.045 | 0.153 | 0.235 |
| 00666 PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 12 | 0.03 | 0.041 | 0.11 | 0.005 | 0.001 | 0.035 | 0.007 | 0.013 | 0.073 | 0.104 |
| 00900p HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 12 | 265. | 316.667 | 620. | 140. | 20842.424 | 144.369 | 152. | 232.5 | 375. | 602. |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 12 | 98. | 122.083 | 320. | 37. | 6592.447 | 81.194 | 41.2 | 72.75 | 137.5 | 296. |
| 00915p CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 12 | 73.5 | 83.667 | 160. | 42. | 1260.606 | 35.505 | 44.1 | 59.5 | 99.25 | 154. |
| 00925p MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 12 | 21. | 26.358 | 53. | 9.3 | 172.395 | 13.13 | 11.01 | 20. | 30.5 | 52.1 |
| 00930p SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 12 | 70. | 74. | 120. | 38. | 552. | 23.495 | 42.2 | 58.5 | 86. | 117. |
| 00931p SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 12 | 1.85 | 1.825 | 2.1 | 1.4 | 0.051 | 0.226 | 1.46 | 1.625 | 2. | 2.1 |
| 00932p SODIUM, PERCENT | 10/01/66-03/21/83 | 12 | 35. | 34.25 | 39. | 29. | 11.841 | 3.441 | 29.3 | 30.5 | 37.5 | 38.7 |
| 00935p POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 12 | 3.75 | 4.358 | 8.2 | 2.3 | 3.064 | 1.751 | 2.54 | 3.25 | 4.925 | 7.93 |
| 00940p CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 12 | 9.5 | 11.917 | 29. | 4. | 46.811 | 6.842 | 4.9 | 8. | 13. | 26.6 |
| 00945p SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 12 | 215. | 248.333 | 480. | 100. | 11287.879 | 106.244 | 112. | 190. | 287.5 | 456. |
| 00950p FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 12 | 0.6 | 0.617 | 1.1 | 0.3 | 0.058 | 0.241 | 0.33 | 0.4 | 0.7 | 1.07 |
| 00955p SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 12 | 15. | 14.667 | 19. | 12. | 5.152 | 2.27 | 12. | 12.25 | 15.75 | 18.7 |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 12 | 508.5 | 585.333 | 1060. | 279. | 51086.242 | 226.023 | 304.5 | 462.25 | 670.25 | 1025.5 |
| 70302p SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 11 | 1280. | 1348.909 | 2060. | 912. | 125150.691 | 353.766 | 914.8 | 1120. | 1600. | 1988. |
| 70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 12 | 0.69 | 0.797 | 1.44 | 0.38 | 0.094 | 0.307 | 0.416 | 0.633 | 0.915 | 1.395 |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 10 | 154.5 | 370.3 | 1330. | 48. | 184967.344 | 430.078 | 49.4 | 77. | 725.5 | 1276.9 |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 10 | 308. | 2205.7 | 10200. | 124. | 11606296.9 | 3406.802 | 125.1 | 136.5 | 4462.5 | 9738. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|--------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 18 | 14. | 11.167 | 21. | 0. | 47.853 | 6.918 | 0. | 4.5 | 16.875 | 18.3 |
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 2 | 745. | 745. | 870. | 620. | 31250. | 176.777 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|--------|-------|
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 16 | 651. | 668.375 | 1130. | 326. | 50799.983 | 225.389 | 373.6 | 481.5 | 837.25 | 1039. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 10 | 800. | 857. | 1200. | 660. | 27223.333 | 164.995 | 669. | 757.5 | 952.5 | 1188. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 10 | 8.15 | 8.03 | 8.4 | 6.8 | 0.198 | 0.445 | 6.92 | 8.075 | 8.2 | 8.38 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 10 | 8.147 | 7.655 | 8.4 | 6.8 | 0.355 | 0.595 | 6.92 | 8.075 | 8.2 | 8.38 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 10 | 0.007 | 0.022 | 0.158 | 0.004 | 0.002 | 0.048 | 0.004 | 0.006 | 0.008 | 0.144 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 10 | 175. | 201. | 310. | 140. | 2898.889 | 53.841 | 142. | 167.5 | 232.5 | 306. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 7 | 210. | 244.286 | 380. | 170. | 6128.571 | 78.285 | ** | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 10 | 0.95 | 1.92 | 11. | 0.2 | 10.293 | 3.208 | 0.24 | 0.75 | 1.25 | 10.04 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 9 | 0.18 | 0.302 | 1.4 | 0.06 | 0.174 | 0.417 | 0.06 | 0.12 | 0.255 | 1.4 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 10 | 0.03 | 0.046 | 0.14 | 0.01 | 0.002 | 0.04 | 0.01 | 0.018 | 0.065 | 0.134 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 10 | 275. | 317. | 510. | 200. | 10801.111 | 103.928 | 203. | 237.5 | 402.5 | 503. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 10 | 100. | 112.9 | 190. | 59. | 2717.211 | 52.127 | 59.3 | 62.75 | 170. | 188. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 10 | 75. | 84.2 | 140. | 54. | 814.622 | 28.542 | 54.7 | 61. | 105. | 138. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 10 | 21. | 25.8 | 38. | 17. | 65.511 | 8.094 | 17.2 | 19.75 | 34.25 | 37.7 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 10 | 83.5 | 85.2 | 120. | 63. | 386.178 | 19.651 | 63. | 67.5 | 100.25 | 119. |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 10 | 2.05 | 2.12 | 2.7 | 1.7 | 0.084 | 0.29 | 1.72 | 1.9 | 2.325 | 2.67 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 10 | 39.5 | 38.1 | 49. | 29. | 32.322 | 5.685 | 29.4 | 33.75 | 41. | 48.2 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 10 | 3.9 | 4.85 | 8.9 | 3.3 | 3.918 | 1.979 | 3.3 | 3.525 | 5.95 | 8.8 |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 10 | 11.5 | 12. | 19. | 7. | 17.111 | 4.137 | 7.1 | 8. | 15.5 | 18.8 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 10 | 240. | 265. | 390. | 140. | 7805.556 | 88.349 | 144. | 195. | 365. | 389. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 10 | 0.5 | 0.57 | 0.8 | 0.4 | 0.016 | 0.125 | 0.41 | 0.5 | 0.7 | 0.79 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 10 | 15. | 15.4 | 23. | 11. | 18.711 | 4.326 | 11. | 11.75 | 17. | 23. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 10 | 547. | 623.2 | 877. | 424. | 32170.178 | 179.36 | 425. | 470. | 820.75 | 875.5 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 10 | 1105. | 1195.5 | 2030. | 547. | 200634.5 | 447.922 | 567.3 | 936. | 1545. | 2004. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 10 | 0.745 | 0.848 | 1.19 | 0.58 | 0.059 | 0.242 | 0.581 | 0.643 | 1.118 | 1.188 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 11 | 148. | 214.636 | 784. | 42. | 44120.855 | 210.05 | 50. | 94. | 208. | 705.6 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 11 | 213. | 413.364 | 1610. | 51. | 234280.455 | 484.025 | 57.4 | 143. | 403. | 1500. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|-------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 14 | 10. | 9.357 | 20. | 0. | 56.055 | 7.487 | 0. | 1.5 | 15.25 | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 3 | 12. | 11.5 | 21. | 1.5 | 95.25 | 9.76 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 13 | 534. | 778.308 | 2960. | 346. | 461222.064 | 679.133 | 395.6 | 492.5 | 850. | 2159.2 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 12 | 985. | 952.5 | 1220. | 390. | 62475. | 249.95 | 477. | 820. | 1175. | 1220. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 12 | 8.4 | 8.35 | 8.5 | 8.1 | 0.021 | 0.145 | 8.1 | 8.225 | 8.475 | 8.5 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 12 | 8.4 | 8.326 | 8.5 | 8.1 | 0.022 | 0.147 | 8.1 | 8.225 | 8.475 | 8.5 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 12 | 0.004 | 0.005 | 0.008 | 0.003 | 0. | 0.002 | 0.003 | 0.003 | 0.006 | 0.008 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 8 | 175. | 187.875 | 250. | 83. | 3501.839 | 59.176 | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 12 | 1. | 0.894 | 1.4 | 0.03 | 0.131 | 0.361 | 0.171 | 0.725 | 1.15 | 1.34 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 12 | 0.085 | 0.126 | 0.35 | 0.02 | 0.013 | 0.112 | 0.023 | 0.05 | 0.163 | 0.347 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 12 | 0.035 | 0.042 | 0.11 | 0. | 0.001 | 0.028 | 0.006 | 0.023 | 0.058 | 0.095 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 12 | 315. | 303.333 | 430. | 100. | 9951.515 | 99.757 | 133. | 232.5 | 400. | 424. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 12 | 105. | 104.917 | 180. | 20. | 2391.902 | 48.907 | 29. | 71. | 152.5 | 174. |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 12 | 81. | 80.083 | 120. | 28. | 726.629 | 26.956 | 36.4 | 61.5 | 106.5 | 117. |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 12 | 27. | 25.417 | 34. | 8. | 63.72 | 7.982 | 10.7 | 20.25 | 32. | 33.7 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 12 | 82. | 77.333 | 100. | 26. | 373.333 | 19.322 | 36.5 | 70.5 | 90.5 | 97.6 |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 12 | 1.9 | 1.917 | 2.6 | 1.1 | 0.122 | 0.349 | 1.28 | 1.8 | 2.075 | 2.48 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 12 | 37. | 36.333 | 43. | 30. | 15.152 | 3.892 | 30.3 | 33.25 | 39.5 | 42.1 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 12 | 4.85 | 4.75 | 7.1 | 1.8 | 2.446 | 1.564 | 2.16 | 3.75 | 6.2 | 6.92 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 12 | 14. | 16.167 | 51. | 1. | 164.333 | 12.819 | 2.8 | 9.25 | 16.5 | 44.4 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 12 | 260. | 246.833 | 340. | 72. | 6087.606 | 78.023 | 101.4 | 192.5 | 310. | 337. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 12 | 0.6 | 0.583 | 0.8 | 0.3 | 0.023 | 0.153 | 0.33 | 0.5 | 0.7 | 0.8 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 12 | 14. | 13.75 | 15. | 12. | 1.295 | 1.138 | 12. | 13. | 15. | 15. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|-------|--------|-------|-------|
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 12 | 631. | 588.833 | 776. | 203. | 26957.788 | 164.188 | 270.5 | 489.25 | 723. | 766.7 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 12 | 895. | 969.25 | 1620. | 567. | 69400.75 | 263.44 | 613.5 | 852.25 | 1100. | 1488. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 12 | 0.86 | 0.802 | 1.06 | 0.28 | 0.05 | 0.223 | 0.37 | 0.665 | 0.985 | 1.045 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 13 | 158. | 299. | 1120. | 41. | 104640.833 | 323.482 | 44.2 | 69.5 | 431. | 977.6 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 13 | 318. | 833.923 | 6110. | 62. | 2680767.077 | 1637.305 | 62.4 | 128.5 | 650.5 | 4298. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|---------|---------|---------|--------------|-----------|-------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 12 | 13. | 11.167 | 22. | 0. | 38.742 | 6.224 | 0.75 | 6.375 | 15. | 20.2 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 12 | 17. | 17.292 | 29. | -5. | 98.294 | 9.914 | 1.3 | 14.25 | 25.625 | 28.7 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 12 | 477. | 1954.75 | 15700. | 256. | 19494495.659 | 4415.257 | 276.4 | 351.25 | 572. | 12022. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 11 | 940. | 967.273 | 1500. | 380. | 88201.818 | 296.988 | 446. | 790. | 1150. | 1454. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 11 | 8.3 | 8.227 | 8.5 | 7.8 | 0.044 | 0.21 | 7.84 | 8.1 | 8.4 | 8.48 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 11 | 8.3 | 8.177 | 8.5 | 7.8 | 0.047 | 0.217 | 7.84 | 8.1 | 8.4 | 8.48 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 11 | 0.005 | 0.007 | 0.016 | 0.003 | 0. | 0.004 | 0.003 | 0.004 | 0.008 | 0.015 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 10 | 1. | 0.9 | 1.2 | 0.4 | 0.089 | 0.298 | 0.41 | 0.575 | 1.2 | 1.2 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 10 | 0.125 | 0.193 | 0.47 | 0.005 | 0.032 | 0.179 | 0.007 | 0.058 | 0.413 | 0.468 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 10 | 0.04 | 0.045 | 0.09 | 0.01 | 0.001 | 0.027 | 0.011 | 0.02 | 0.065 | 0.089 |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 10 | 310. | 310. | 430. | 110. | 10733.333 | 103.602 | 122. | 245. | 420. | 429. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 2 | 175. | 175. | 300. | 50. | 31250. | 176.777 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 10 | 79. | 80.8 | 111. | 29. | 733.067 | 27.075 | 32. | 62.75 | 110. | 110.9 |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 10 | 27.5 | 26.59 | 38. | 7.9 | 87.792 | 9.37 | 9.11 | 20. | 36. | 37.8 |
| 00930p | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 10 | 93. | 83.7 | 110. | 25. | 592.011 | 24.331 | 29.7 | 72. | 100. | 109. |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 10 | 2.25 | 2.14 | 2.6 | 1.1 | 0.165 | 0.406 | 1.19 | 2. | 2.325 | 2.58 |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 10 | 37. | 36.7 | 41. | 32. | 10.456 | 3.234 | 32. | 33.5 | 39.25 | 40.9 |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 10 | 4.2 | 4.29 | 5.9 | 1.6 | 2.141 | 1.463 | 1.74 | 3.375 | 5.8 | 5.89 |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 10 | 12.5 | 12.6 | 18. | 3. | 23.378 | 4.835 | 3.5 | 9.5 | 17. | 17.9 |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 10 | 290. | 278.4 | 450. | 74. | 11612.267 | 107.76 | 86.6 | 207.5 | 352.5 | 441. |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 10 | 0.7 | 0.6 | 0.8 | 0.2 | 0.031 | 0.176 | 0.23 | 0.5 | 0.7 | 0.79 |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 10 | 14. | 14. | 16. | 11. | 2.444 | 1.563 | 11.2 | 13. | 15.25 | 16. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 10 | 653.5 | 613.9 | 820. | 213. | 34548.767 | 185.873 | 240.7 | 508. | 767.75 | 816.2 |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 10 | 720.5 | 848. | 1980. | 503. | 181652.667 | 426.207 | 504. | 597. | 923.25 | 1875. |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 10 | 0.89 | 0.836 | 1.12 | 0.29 | 0.064 | 0.253 | 0.328 | 0.693 | 1.045 | 1.114 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 11 | 113. | 220.364 | 628. | 32. | 47165.855 | 217.177 | 37.4 | 66. | 431. | 615.4 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 11 | 113. | 550.455 | 4000. | 50. | 1348749.073 | 1161.357 | 56.6 | 85. | 549. | 3328.2 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|------|--------|---------|---------|---------|-------------|-----------|------|------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 9 | 11.5 | 9.111 | 17. | 0. | 40.236 | 6.343 | 0. | 2.25 | 14.75 | 17. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 9 | 18.5 | 13.111 | 25.5 | -13. | 146.861 | 12.119 | 4.5 | 10.5 | 24. | -13. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 8 | 738. | 1406.75 | 5740. | 288. | 3221200.786 | 1794.77 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 9 | 840. | 854.444 | 1190. | 280. | 78652.778 | 280.451 | 280. | 715. | 1090. | 1190. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 4 | 0.55 | 0.6 | 1.1 | 0.2 | 0.18 | 0.424 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 4 | 0.055 | 0.109 | 0.32 | 0.005 | 0.021 | 0.143 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 4 ## | 0.023 | 0.043 | 0.12 | 0.005 | 0.003 | 0.054 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 4 | 280. | 298.75 | 560. | 75. | 41339.583 | 203.321 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|------|------|------|------|
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 4 | 73. | 79. | 149. | 21. | 2891.333 | 53.771 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 4 | 24.5 | 25.1 | 46. | 5.4 | 288.707 | 16.991 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 4 | 74. | 66.75 | 100. | 19. | 1196.25 | 34.587 | ** | ** | ** | ** |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 4 | 2.05 | 1.8 | 2.1 | 1. | 0.287 | 0.535 | ** | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 4 | 34.5 | 33.75 | 38. | 28. | 17.583 | 4.193 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 4 | 4.4 | 4.975 | 9.6 | 1.5 | 12.183 | 3.49 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 4 | 12. | 14. | 30. | 2. | 152.667 | 12.356 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 4 | 245. | 230.75 | 390. | 43. | 23155.583 | 152.17 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 4 | 0.5 | 0.525 | 0.9 | 0.2 | 0.083 | 0.287 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 4 | 13.5 | 16. | 26. | 11. | 46. | 6.782 | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 4 | 563.5 | 565.25 | 979. | 155. | 119504.25 | 345.694 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 4 | 1745. | 1601. | 2400. | 514. | 670897.333 | 819.083 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 4 | 0.765 | 0.768 | 1.33 | 0.21 | 0.221 | 0.47 | ** | ** | ** | ** |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 7 | 91. | 204.429 | 792. | 22. | 74733.619 | 273.375 | ** | ** | ** | ** |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 7 | 143. | 1916.714 | 12300. | 25. | 20991037.238 | 4581.598 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|--------|---------|---------|------------|-----------|------|------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 9 | 16. | 11.611 | 20. | 1. | 49.174 | 7.012 | 1. | 4. | 16.75 | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 9 | 22.5 | 17.833 | 31.5 | 2. | 126.875 | 11.264 | 2. | 5.75 | 27.75 | 31.5 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 9 | 884. | 1418. | 4660. | 443. | 1891298.25 | 1375.245 | 443. | 504. | 1980. | 4660. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 9 | 760. | 690. | 1000. | 390. | 38350. | 195.832 | 390. | 520. | 790. | 1000. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 6 | 8.2 | 8.117 | 8.2 | 7.9 | 0.018 | 0.133 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 6 | 8.2 | 8.098 | 8.2 | 7.9 | 0.018 | 0.134 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 6 | 0.006 | 0.008 | 0.013 | 0.006 | 0. | 0.003 | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 3 | 0.5 | 0.533 | 0.8 | 0.3 | 0.063 | 0.252 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 3 | 0.1 | 0.173 | 0.39 | 0.03 | 0.036 | 0.191 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 3 | 0.04 | 0.037 | 0.06 | 0.01 | 0.001 | 0.025 | ** | ** | ** | ** |
| 00900p | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 2 | 305. | 305. | 350. | 260. | 4050. | 63.64 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 3 | 68. | 67.667 | 90. | 45. | 506.333 | 22.502 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 3 | 21. | 21.667 | 30. | 14. | 64.333 | 8.021 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 3 | 52. | 57.667 | 76. | 45. | 264.333 | 16.258 | ** | ** | ** | ** |
| 00931p | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 2 | 1.55 | 1.55 | 1.9 | 1.2 | 0.245 | 0.495 | ** | ** | ** | ** |
| 00932p | SODIUM, PERCENT | 10/01/66-03/21/83 | 2 | 29.5 | 29.5 | 32. | 27. | 12.5 | 3.536 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 3 | 3.9 | 3.9 | 4.9 | 2.9 | 1. | 1. | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 3 | 9. | 9.667 | 14. | 6. | 16.333 | 4.041 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 3 | 160. | 190. | 270. | 140. | 4900. | 70. | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 3 | 0.4 | 0.467 | 0.6 | 0.4 | 0.013 | 0.115 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 3 | 15. | 14.667 | 16. | 13. | 2.333 | 1.528 | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 2 | 533.5 | 533.5 | 636. | 431. | 21012.5 | 144.957 | ** | ** | ** | ** |
| 70302p | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 2 | 931. | 931. | 1100. | 762. | 57122. | 239.002 | ** | ** | ** | ** |
| 70303p | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 2 | 0.725 | 0.725 | 0.86 | 0.59 | 0.036 | 0.191 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 5 | 8. | 10.5 | 20. | 0. | 62.25 | 7.89 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 5 | 14. | 17.7 | 35. | 4. | 147.95 | 12.163 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 5 | 634. | 1368.4 | 4350. | 590. | 2778918.8 | 1667.009 | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 5 | 0.5 | 0.58 | 1.1 | 0.2 | 0.137 | 0.37 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 5 | 0.12 | 0.142 | 0.25 | 0.04 | 0.01 | 0.099 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 5 | 0.03 | 0.024 | 0.04 | 0.01 | 0. | 0.013 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 5 | 64. | 61.8 | 82. | 27. | 465.7 | 21.58 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 5 | 23. | 19.86 | 25. | 7.3 | 52.798 | 7.266 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 5 | 65. | 58.6 | 78. | 23. | 448.3 | 21.173 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 5 | 3.1 | 3.2 | 4.3 | 1.8 | 0.94 | 0.97 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 5 | 9. | 8. | 12. | 2. | 13.5 | 3.674 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 5 | 220. | 180.8 | 220. | 54. | 5193.2 | 72.064 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 5 | 0.5 | 0.48 | 0.6 | 0.2 | 0.027 | 0.164 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 5 | 15. | 14.2 | 16. | 12. | 2.7 | 1.643 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 4 | 12. | 10.5 | 17.5 | 0.5 | 61.833 | 7.863 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 4 | 16.5 | 13.125 | 23.5 | -4. | 141.396 | 11.891 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 4 | 520.5 | 483.75 | 611. | 283. | 19732.917 | 140.474 | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 4 | 1.25 | 1.2 | 1.6 | 0.7 | 0.14 | 0.374 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 4 | 0.045 | 0.064 | 0.16 | 0.005 | 0.005 | 0.068 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 4 | 0.03 | 0.039 | 0.09 | 0.005 | 0.001 | 0.037 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 4 | 81. | 79. | 85. | 69. | 54. | 7.348 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 4 | 25.5 | 26.25 | 30. | 24. | 6.917 | 2.63 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 4 | 88.5 | 83.25 | 100. | 56. | 387.583 | 19.687 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 4 | 4.2 | 4.075 | 4.5 | 3.4 | 0.249 | 0.499 | ** | ** | ** | ** |
| 00940p | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 4 | 14. | 14. | 17. | 11. | 6.667 | 2.582 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 4 | 250. | 255. | 310. | 210. | 1766.667 | 42.032 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 4 | 0.6 | 0.625 | 0.7 | 0.6 | 0.002 | 0.05 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 4 | 13.5 | 13.75 | 16. | 12. | 2.917 | 1.708 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 4 | 4. | 5.25 | 13. | 0. | 40.917 | 6.397 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 4 | 9.25 | 12.625 | 28. | 4. | 112.229 | 10.594 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 4 | 568.5 | 1050.25 | 2530. | 534. | 973454.917 | 986.638 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 1 | 920. | 920. | 920. | 920. | 0. | 0. | ** | ** | ** | ** |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 4 | 0.7 | 0.725 | 1.1 | 0.4 | 0.109 | 0.33 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 3 | 0.08 | 0.147 | 0.3 | 0.06 | 0.018 | 0.133 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 2 | 0.03 | 0.03 | 0.05 | 0.01 | 0.001 | 0.028 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 4 | 68. | 65.25 | 96. | 29. | 782.25 | 27.969 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 4 | 29.5 | 25.95 | 36. | 8.8 | 141.61 | 11.9 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 4 | 70. | 66.5 | 99. | 27. | 891. | 29.85 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 4 | 3.9 | 3.625 | 5.1 | 1.6 | 2.249 | 1.5 | ** | ** | ** | ** |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 4 | 10.5 | 9.5 | 14. | 3. | 25.667 | 5.066 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 4 | 230. | 198. | 260. | 72. | 7322.667 | 85.573 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 4 | 0.5 | 0.45 | 0.6 | 0.2 | 0.03 | 0.173 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 4 | 14. | 13.5 | 15. | 11. | 3.667 | 1.915 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 12 | 12.5 | 11.667 | 21. | 0. | 40.288 | 6.347 | 0.3 | 9. | 16.5 | 20.25 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 12 | 17. | 15.583 | 28.5 | -3. | 87.765 | 9.368 | 4.25 | 0.75 | 20.75 | 28.35 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 12 | 399. | 747.083 | 3860. | 283. | 1029979.356 | 1014.879 | 286. | 310.25 | 532.5 | 3077. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 12 | 915. | 970.417 | 1270. | 760. | 24365.72 | 156.095 | 788.5 | 860. | 1122.5 | 1237. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 3 | 1. | 1. | 1.5 | 0.5 | 0.25 | 0.5 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 2 | 3.985 | 3.985 | 7.9 | 0.07 | 30.654 | 5.537 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 3 | 0.03 | 0.037 | 0.06 | 0.02 | 0. | 0.021 | ** | ** | ** | ** |
| 00915p | CALCIUM, DISSOLVED (MG/L AS CA) | 10/01/66-07/09/87 | 3 | 70. | 77. | 100. | 61. | 417. | 20.421 | ** | ** | ** | ** |
| 00925p | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 3 | 23. | 26.333 | 34. | 22. | 44.333 | 6.658 | ** | ** | ** | ** |
| 00930p | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-07/09/87 | 3 | 81. | 80.667 | 82. | 79. | 2.333 | 1.528 | ** | ** | ** | ** |
| 00935p | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 3 | 4.4 | 4.567 | 5.8 | 3.5 | 1.343 | 1.159 | ** | ** | ** | ** |
| 00940p | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 3 | 13. | 12.667 | 16. | 9. | 12.333 | 3.512 | ** | ** | ** | ** |
| 00945p | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 3 | 240. | 243.333 | 270. | 220. | 633.333 | 25.166 | ** | ** | ** | ** |
| 00950p | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 3 | 0.5 | 0.567 | 0.7 | 0.5 | 0.013 | 0.115 | ** | ** | ** | ** |
| 00955p | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-07/09/87 | 3 | 14. | 14. | 15. | 13. | 1. | 1. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-----------|-----------|------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 9 | 11.5 | 10. | 25.5 | 0. | 76.938 | 8.771 | 0. | 1.5 | 16. | 25.5 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 9 | 8. | 13. | 34. | 3. | 139.063 | 11.792 | 3. | 3.5 | 23.25 | 34. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 9 | 306. | 312.667 | 469. | 177. | 10190.5 | 100.948 | 177. | 228.5 | 397.5 | 469. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 9 | 1080. | 1115.556 | 1330. | 880. | 26702.778 | 163.41 | 880. | 990. | 1285. | 1330. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|-------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 10 | 8.25 | 7.85 | 17. | 0. | 49.614 | 7.044 | 0. | 0. | 14.25 | 16.95 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 10 | 16.5 | 7.5 | 30. | -13. | 232.778 | 15.257 | 8.15 | -4.75 | 19.25 | -13. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 10 | 549. | 666.5 | 1620. | 223. | 179148.278 | 423.259 | 226.7 | 305.75 | 926.75 | 1559. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 10 | 787.5 | 912.7 | 1390. | 470. | 105838.456 | 325.328 | 487.7 | 649.25 | 1267.5 | 1383. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 8 | 10. | 9.75 | 18. | 0. | 55.857 | 7.474 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 8 | 24. | 8.813 | 28. | -26. | 350.71 | 18.727 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 8 | 568. | 744.125 | 1900. | 223. | 282179.839 | 531.206 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 8 | 855. | 810.75 | 1050. | 490. | 49564.5 | 222.631 | ** | ** | ** | ** |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 4 | 168.5 | 243.75 | 573. | 65. | 50620.917 | 224.991 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 11 | 10. | 11.091 | 22. | 1. | 53.991 | 7.348 | 1.5 | 4. | 16.5 | 21.8 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 10 | 18. | 18.05 | 37. | 4. | 150.914 | 12.285 | 4. | 4.375 | 28.25 | 36.2 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 11 | 639. | 1145.455 | 4270. | 279. | 1632382.473 | 1277.647 | 283.2 | 560. | 1000. | 4016. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 11 | 730. | 780.636 | 1290. | 342. | 86311.455 | 293.788 | 373.6 | 605. | 900. | 1289. |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 4 | 95. | 131. | 286. | 48. | 11339.333 | 106.486 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 10 | 11. | 10.45 | 22. | 0. | 45.803 | 6.768 | 0.4 | 4.75 | 15.375 | 21.45 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 10 | 15.5 | 15.4 | 33. | -3. | 130.322 | 11.416 | 4.85 | 8. | 24.875 | 32.6 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 10 | 555.5 | 567.5 | 780. | 298. | 22876.5 | 151.25 | 308.8 | 452.5 | 693.75 | 773.7 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 10 | 749.5 | 887.4 | 1300. | 670. | 53775.378 | 231.895 | 674. | 717.5 | 1100. | 1292. |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 3 | 100. | 229.667 | 566. | 23. | 86322.333 | 293.807 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 9 | 11.5 | 10.611 | 20. | 0. | 74.799 | 8.649 | 0. | 2.25 | 20. | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 9 | 15. | 13. | 30. | -8. | 202.25 | 14.221 | 3. | 1. | 26.5 | 30. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 9 | 640. | 644.111 | 977. | 311. | 46482.111 | 215.597 | 311. | 494. | 794.5 | 977. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 9 | 715. | 775.111 | 1150. | 434. | 55540.611 | 235.671 | 434. | 633.5 | 987.5 | 1150. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 11 | 8.9 | 8.809 | 19.1 | 0. | 51.599 | 7.183 | 0. | 1.5 | 15.3 | 19.04 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 11 | 15. | 11.382 | 28. | -10. | 117.162 | 10.824 | 3.3 | 9.8 | 20.2 | -2.4 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 11 | 551. | 518.455 | 735. | 333. | 12440.873 | 111.539 | 345.2 | 438. | 570. | 710. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 11 | 810. | 980.545 | 1990. | 593. | 188737.273 | 434.439 | 607. | 702. | 1220. | 1904. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 8 | 11.75 | 11.463 | 20.8 | 0. | 56.571 | 7.521 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 8 | 16.75 | 20.825 | 40. | -0.6 | 203.082 | 14.251 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 8 | 557.5 | 1104.125 | 5070. | 212. | 2630446.125 | 1621.865 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 8 | 857.5 | 987.375 | 1860. | 296. | 290777.696 | 539.238 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 6 | 5.65 | 8.2 | 21. | 0.5 | 76.616 | 8.753 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 6 | -5.75 | 11.883 | 38. | -6.5 | 314.198 | 17.726 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 6 | 1002. | 1498.833 | 3060. | 457. | 1396456.167 | 1181.717 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 6 | 622. | 701.333 | 1490. | 276. | 191959.467 | 438.132 | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 2 | 8.6 | 8.6 | 8.7 | 8.5 | 0.02 | 0.141 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 2 | 8.589 | 8.589 | 8.7 | 8.5 | 0.02 | 0.142 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 2 | 0.003 | 0.003 | 0.003 | 0.002 | 0. | 0.001 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

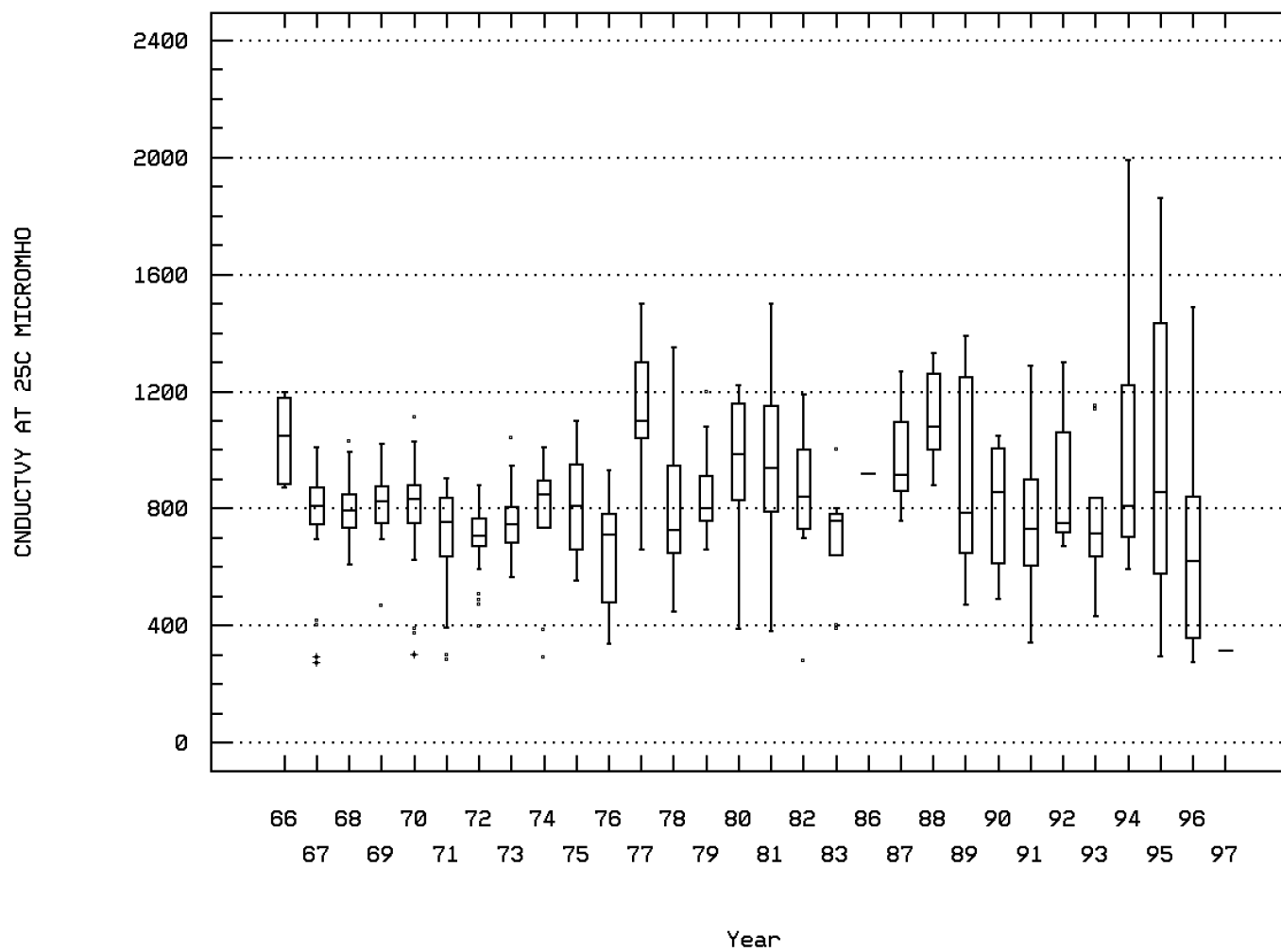
Annual Analysis for 1997 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 1 | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 1 | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 1 | 3800. | 3800. | 3800. | 0. | 0. | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 1 | 315. | 315. | 315. | 0. | 0. | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 1 | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 1 | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 1 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0019 Parameter Code: 00095

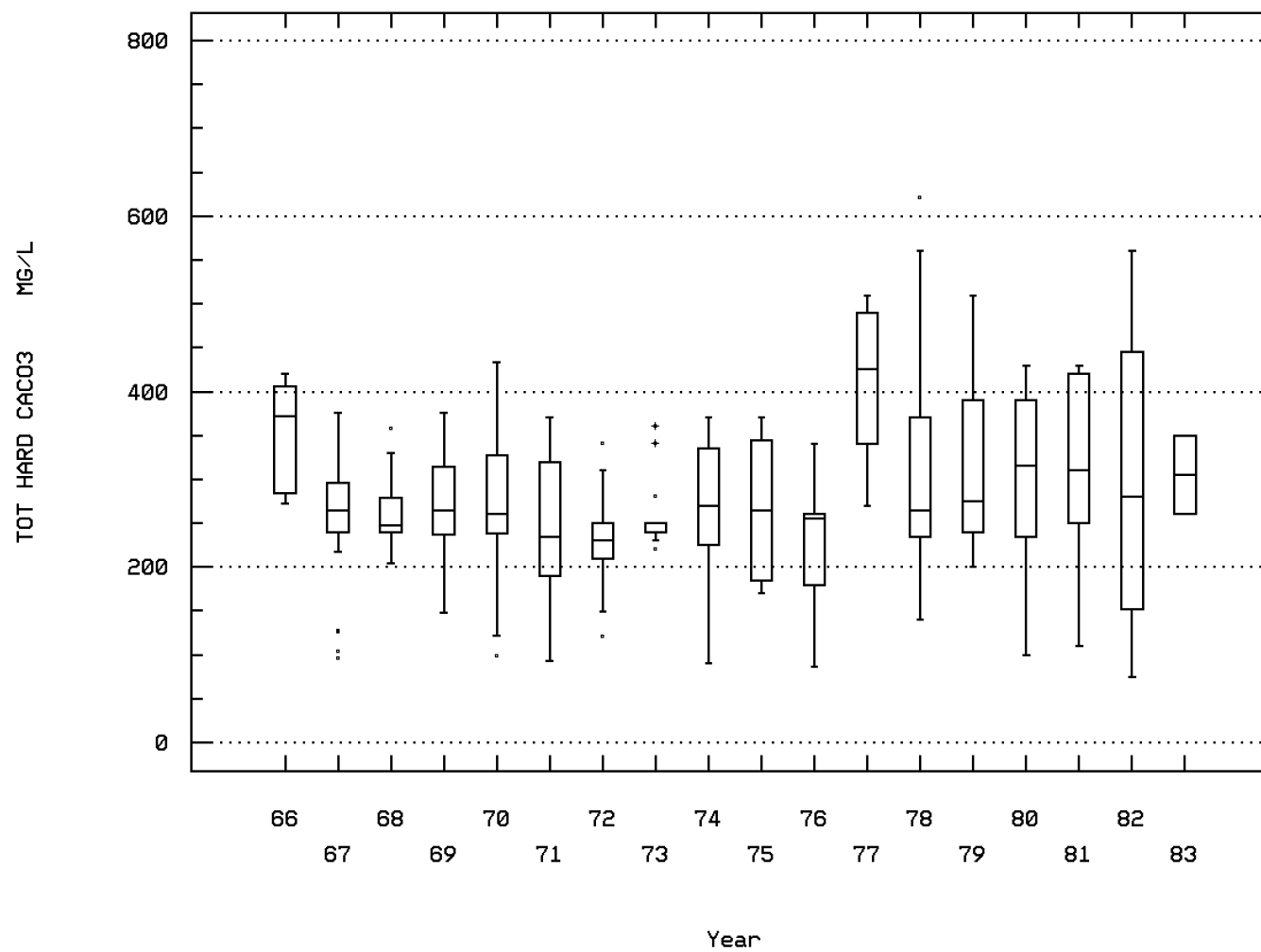
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00900

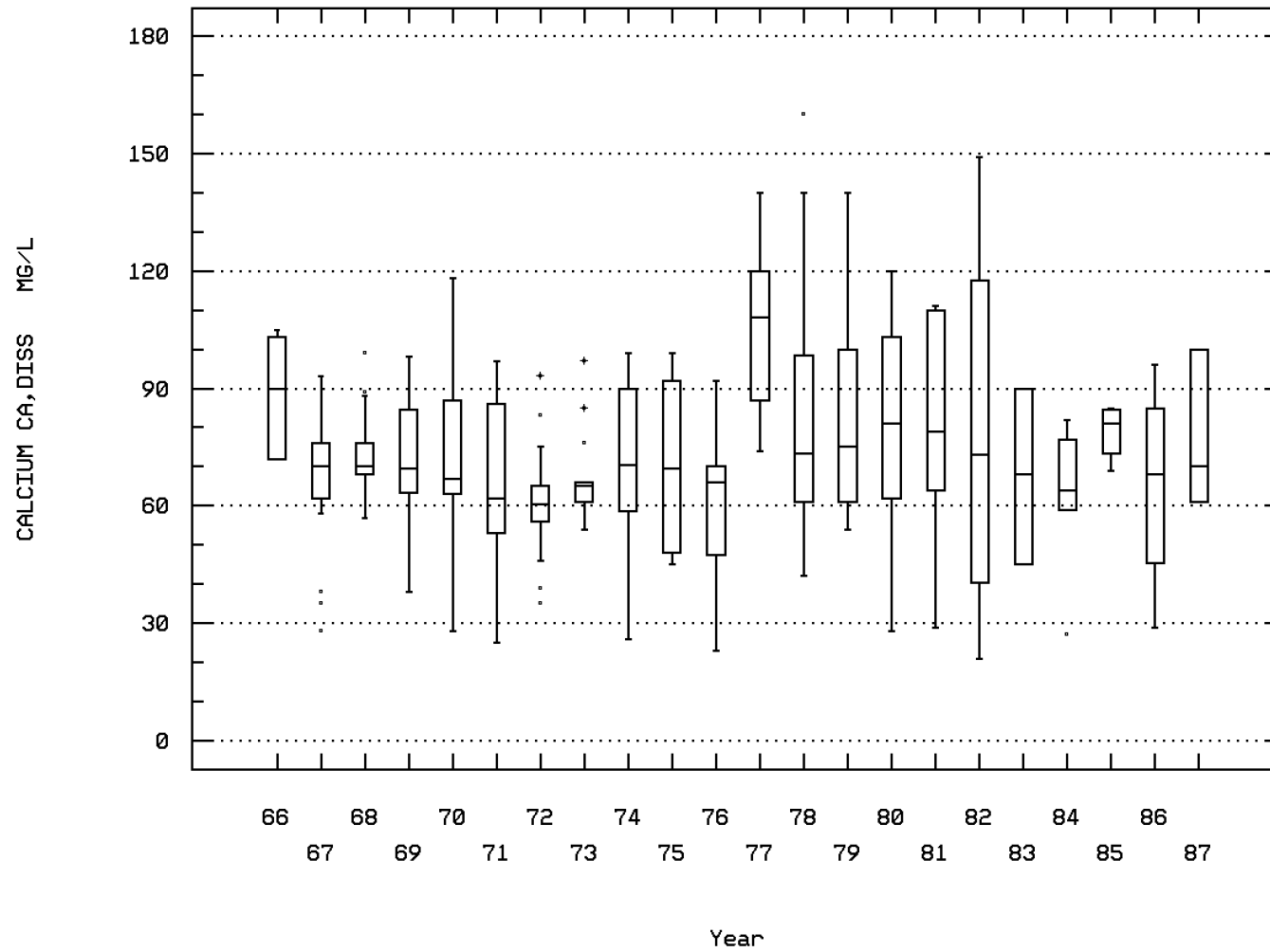
HARDNESS, TOTAL (MG/L AS CaCO3)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00915

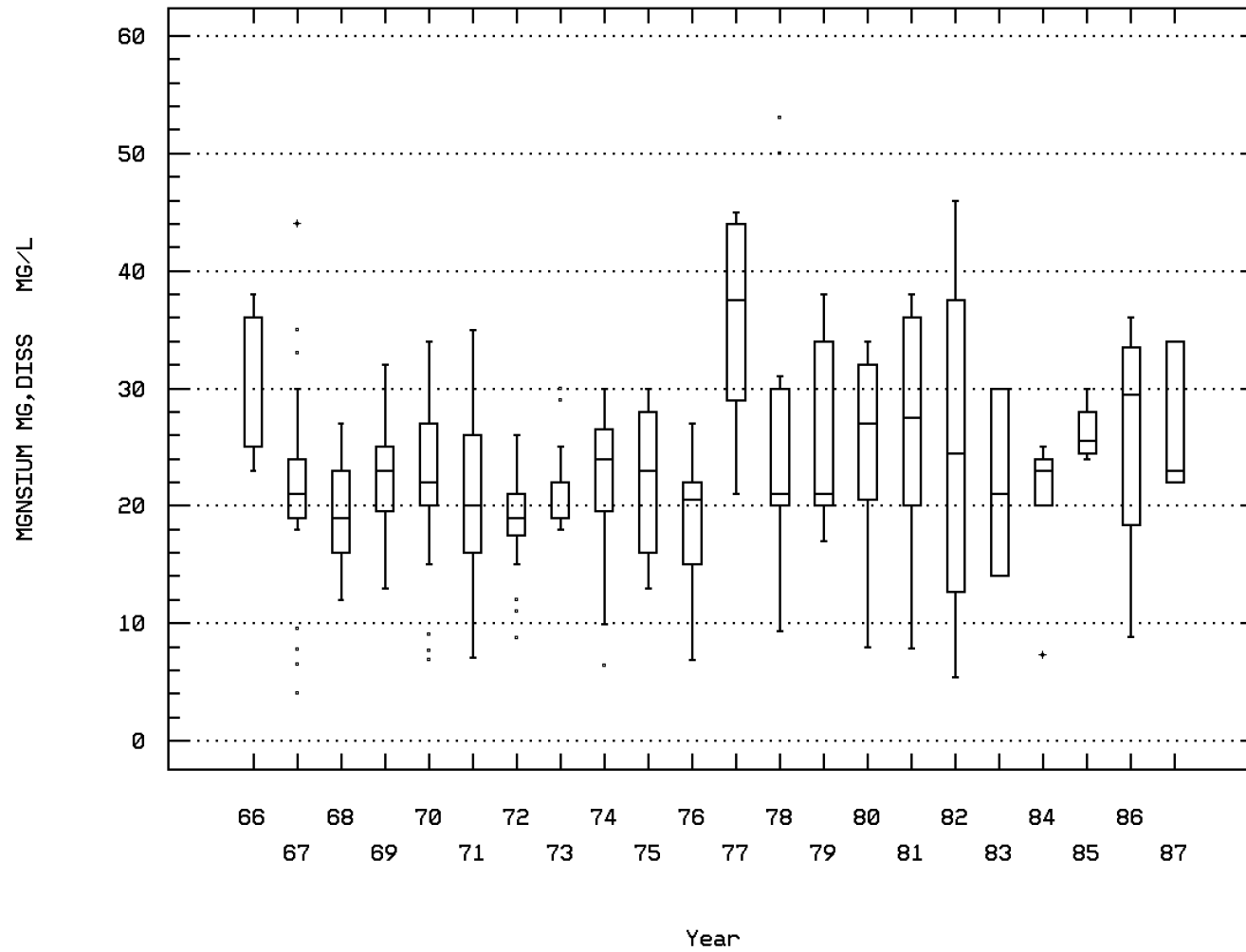
CALCIUM, DISSOLVED (MG/L AS CA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00925

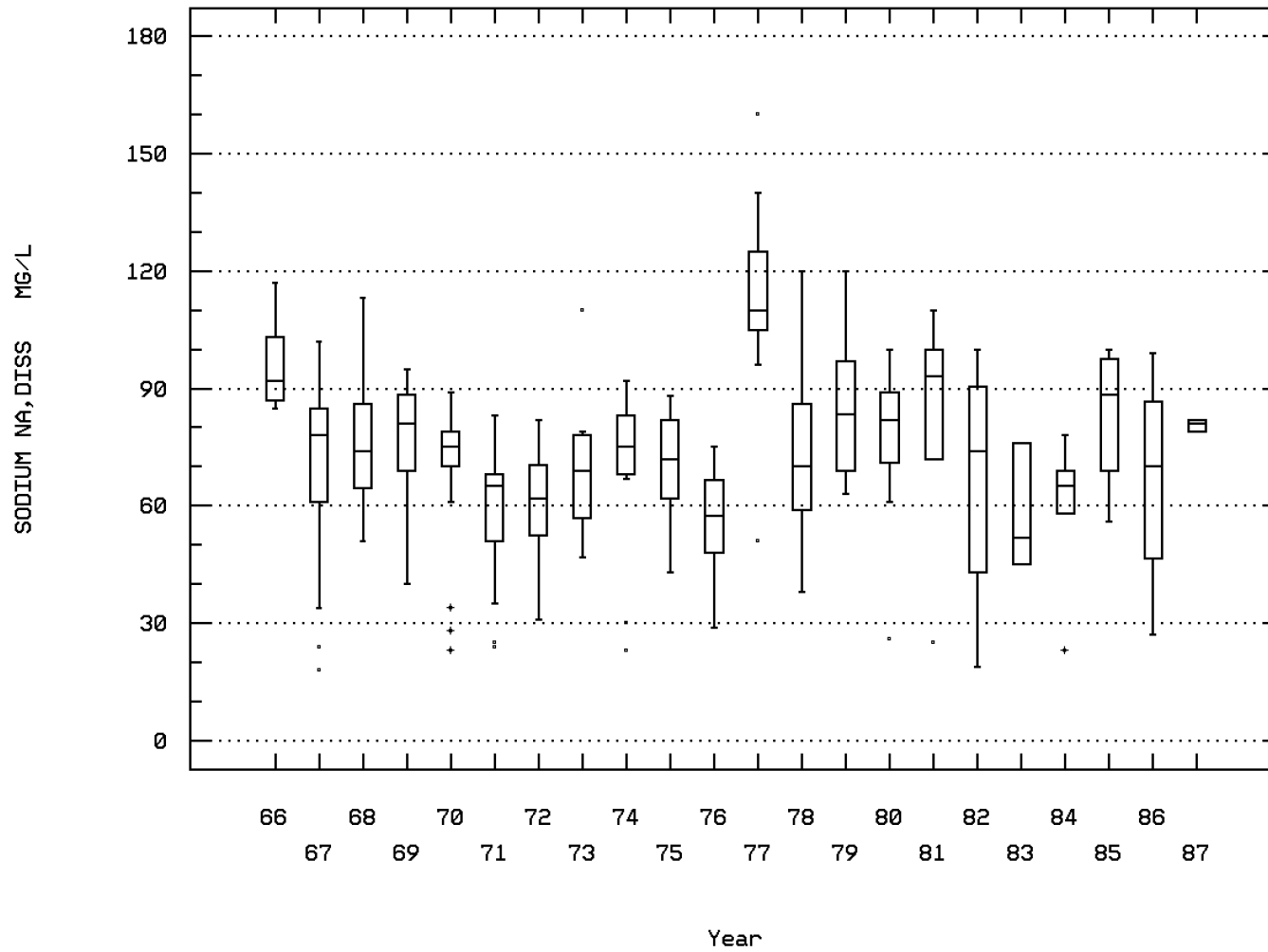
MAGNESIUM, DISSOLVED (MG/L AS MG)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00930

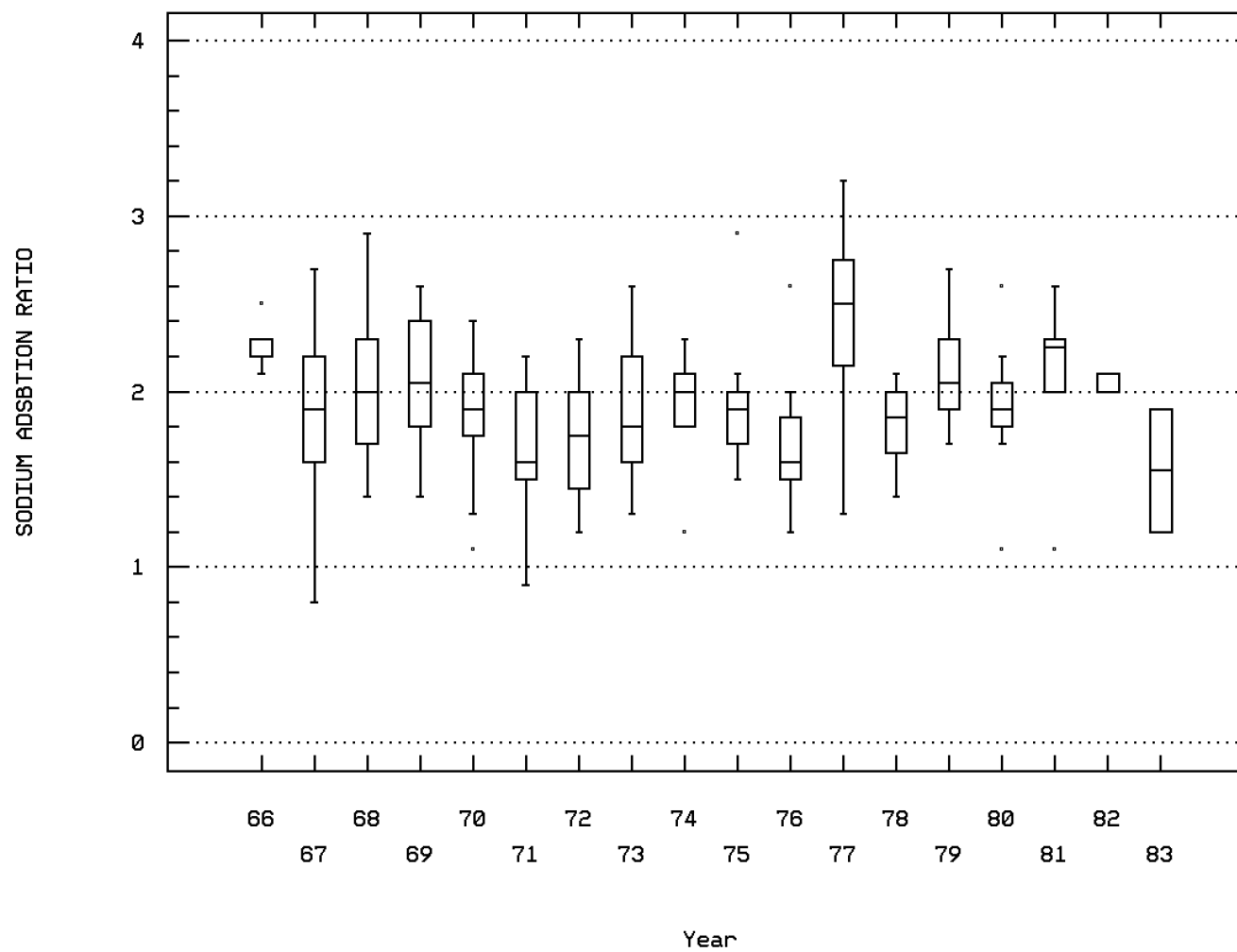
SODIUM, DISSOLVED (MG/L AS NA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00931

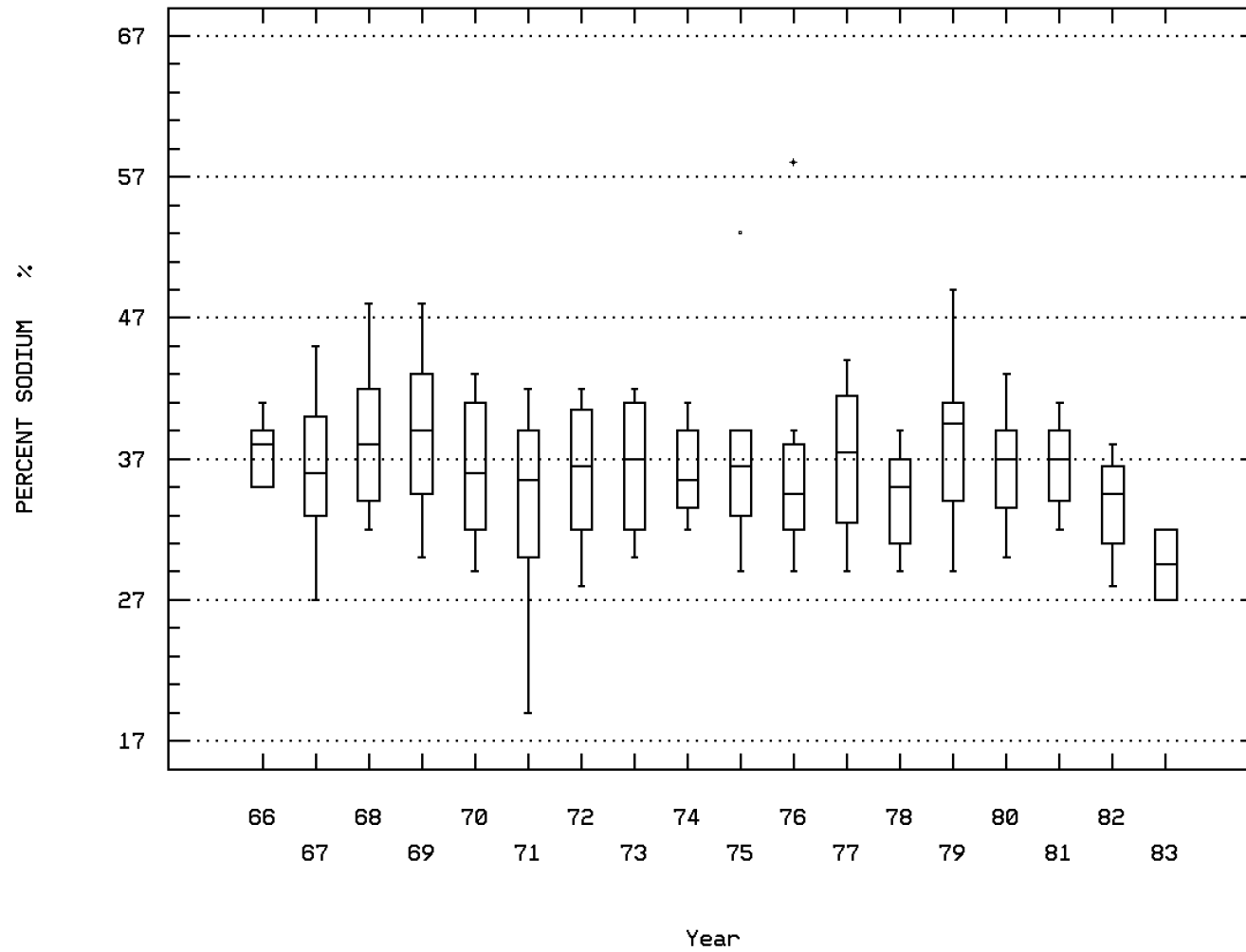
SODIUM ADSORPTION RATIO



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00932

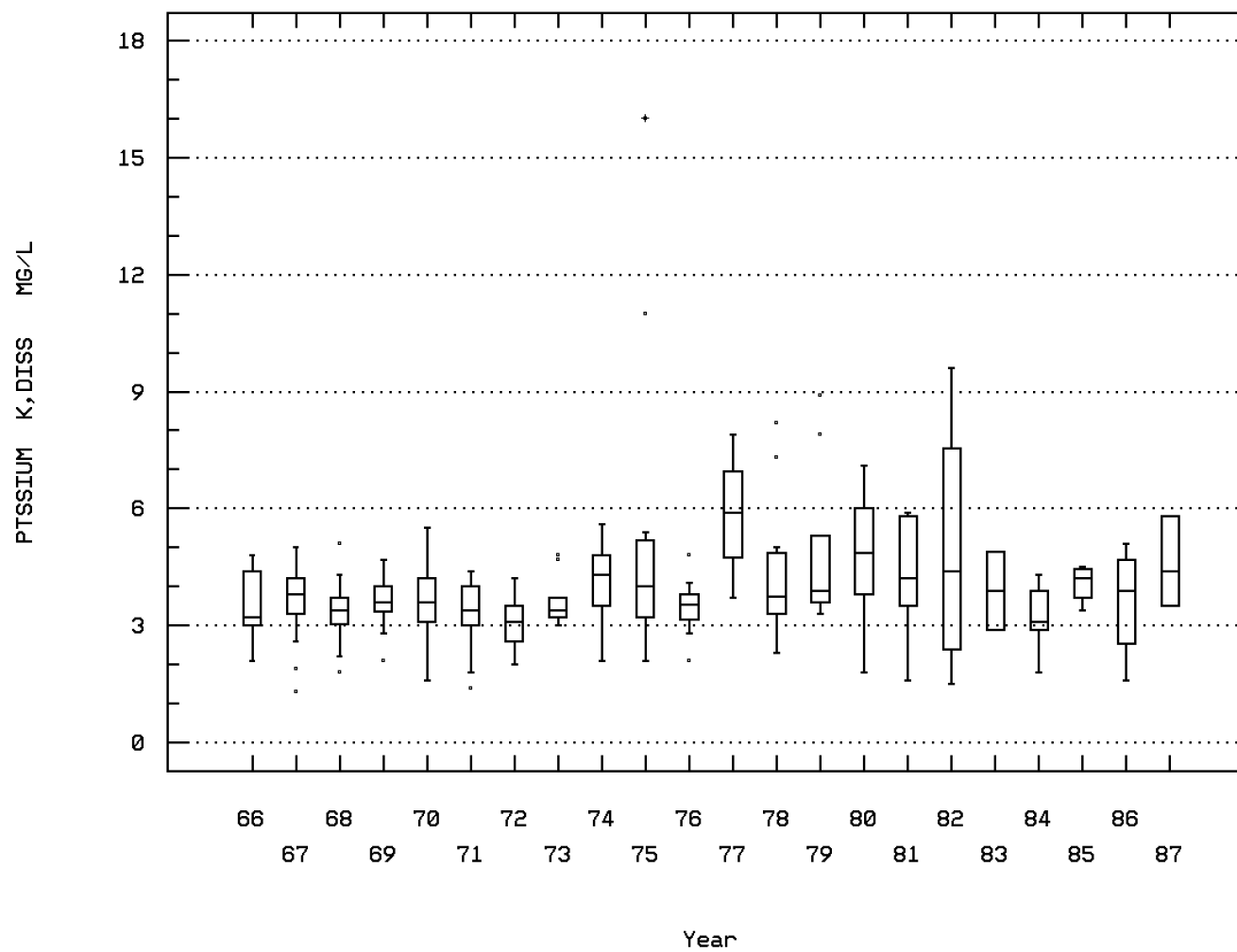
SODIUM, PERCENT



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00935

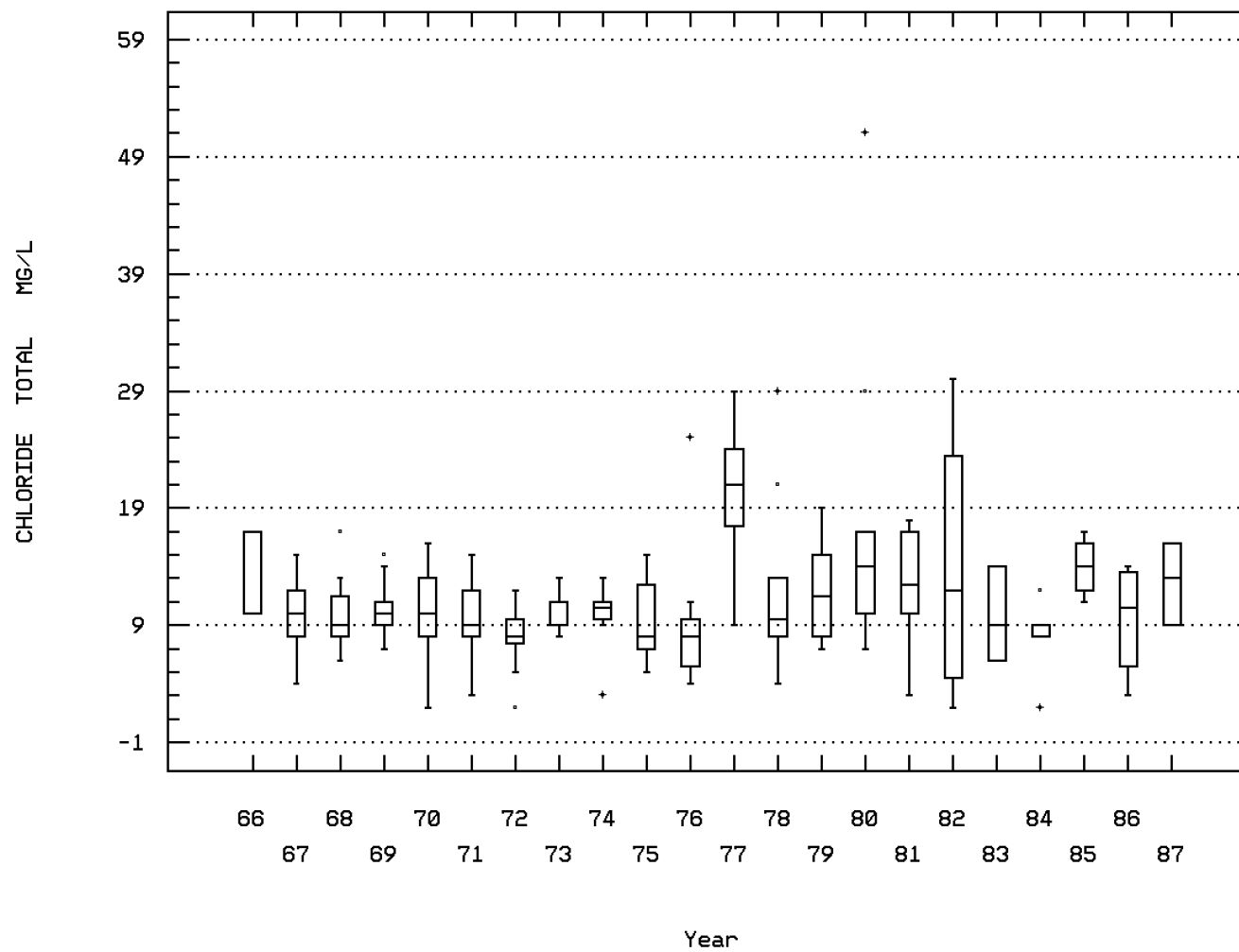
POTASSIUM, DISSOLVED (MG/L AS K)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00940

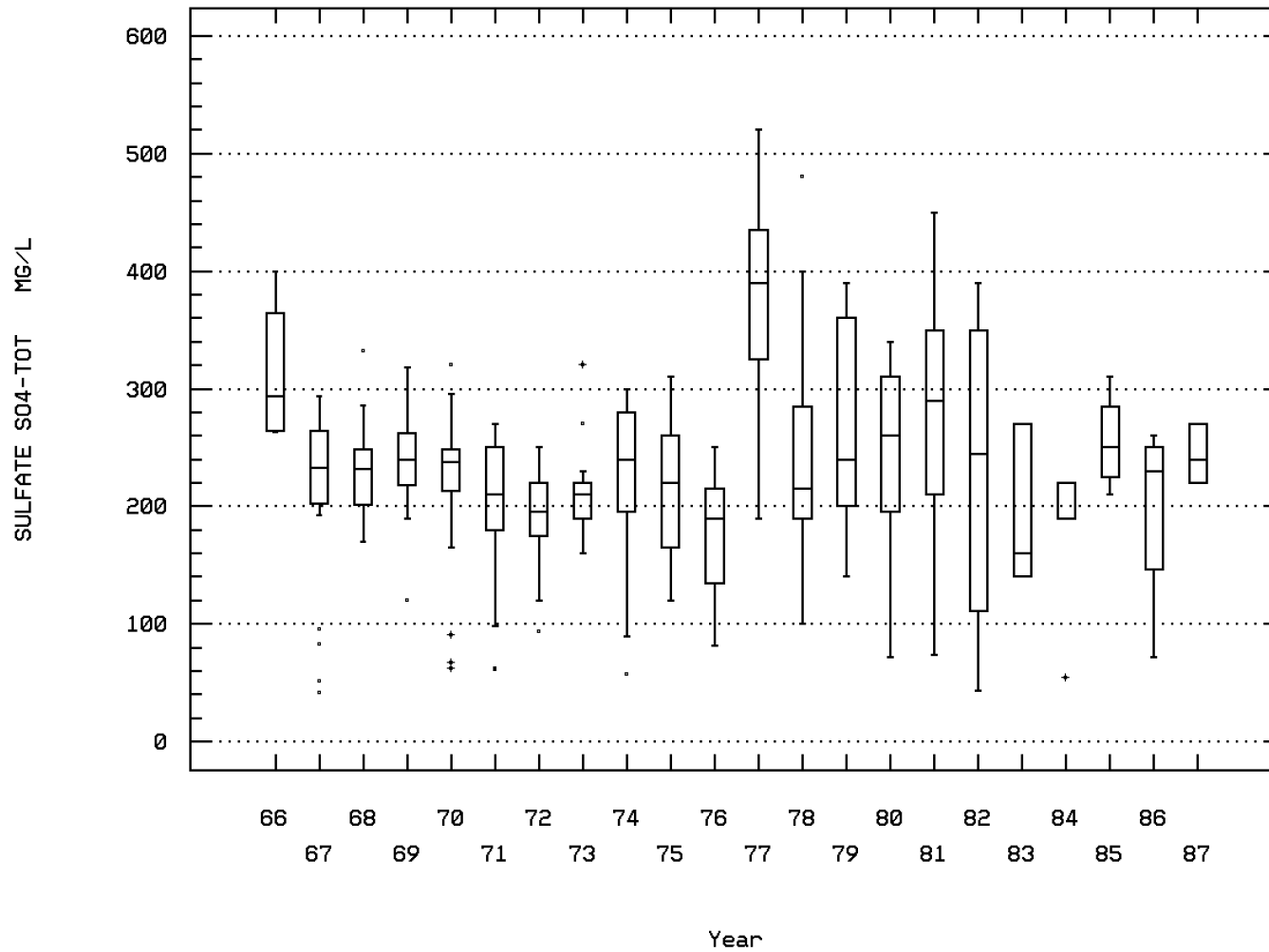
CHLORIDE, TOTAL IN WATER



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00945

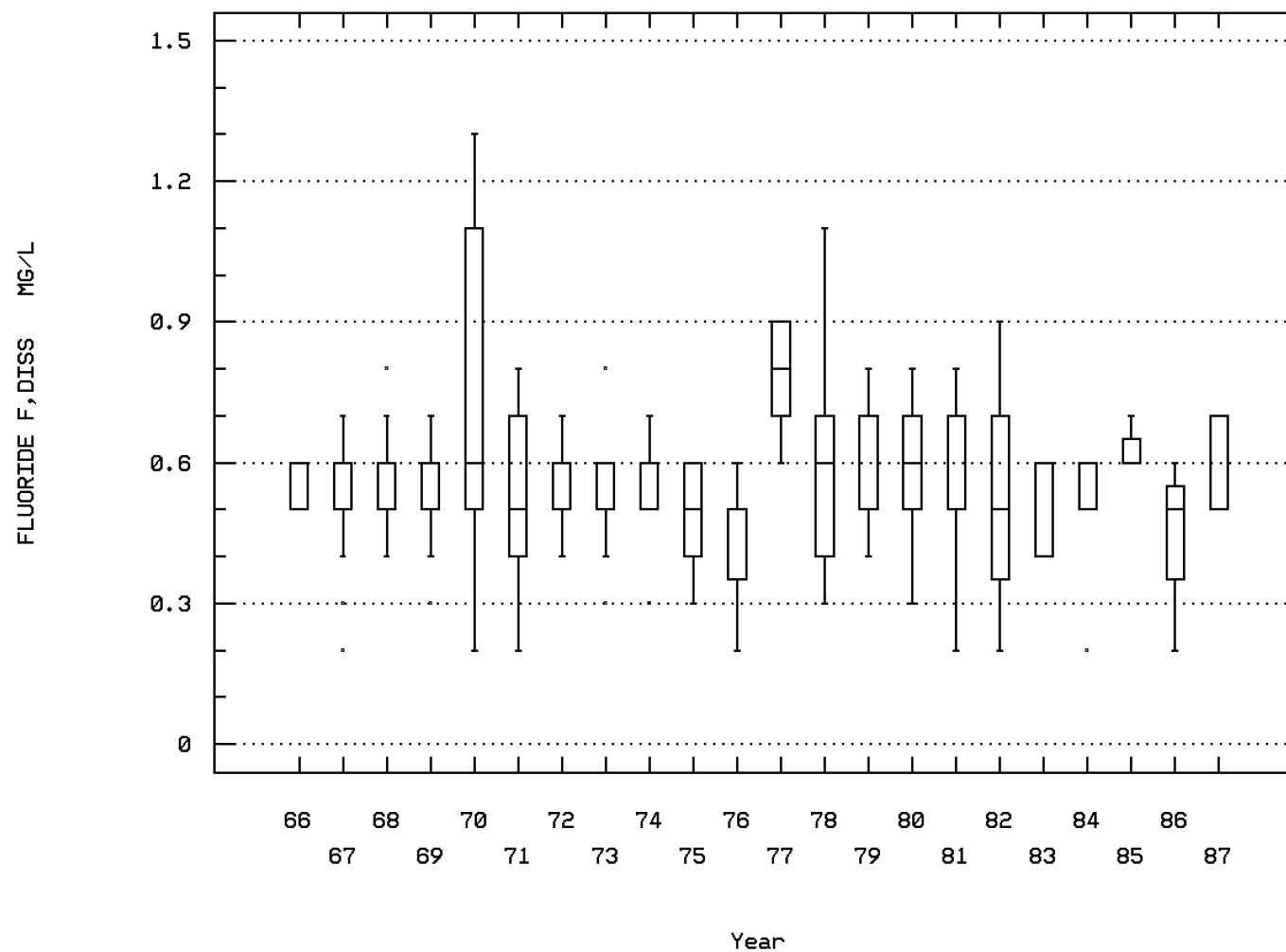
SULFATE, TOTAL (MG/L AS SO₄)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00950

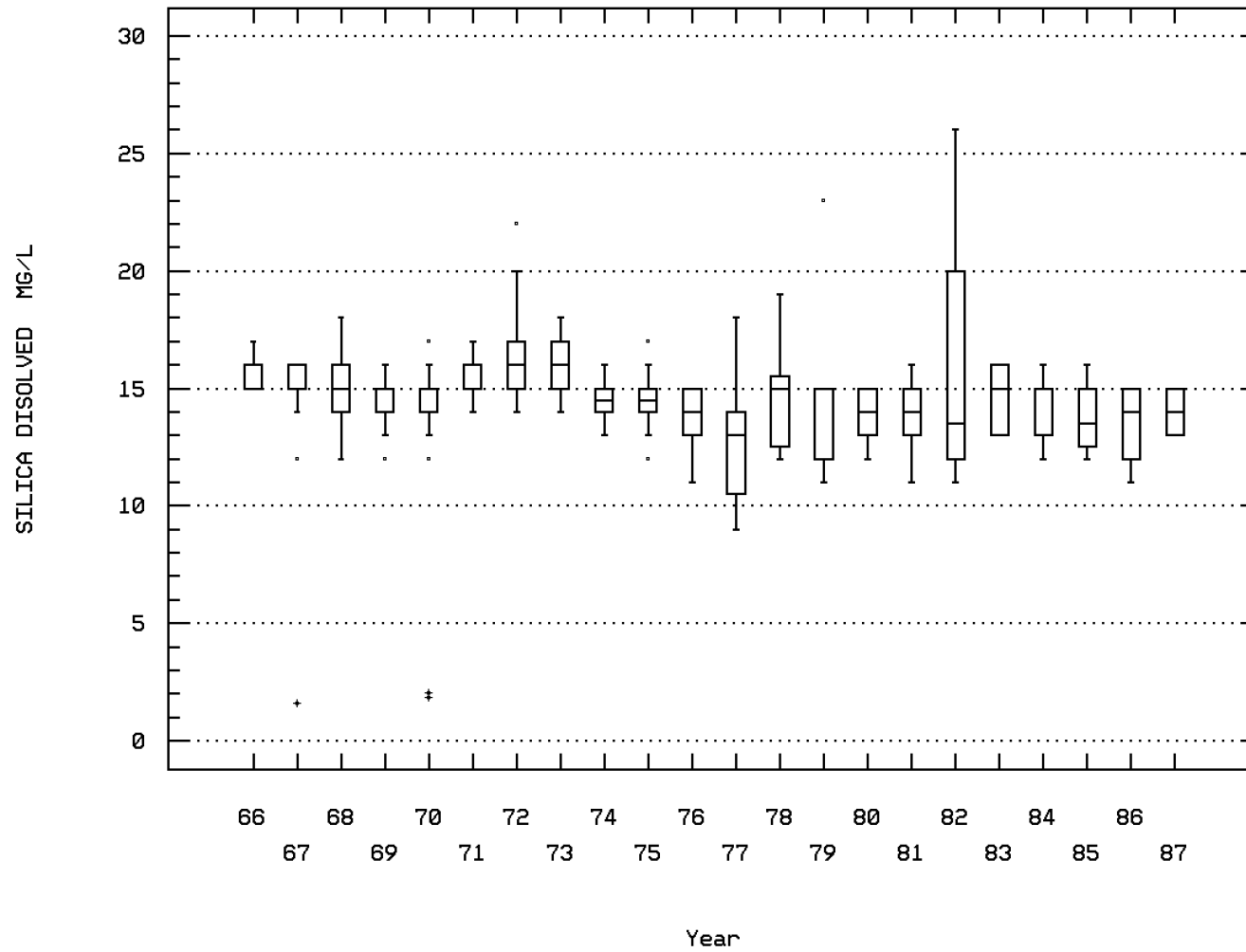
FLUORIDE, DISSOLVED (MG/L AS F)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00955

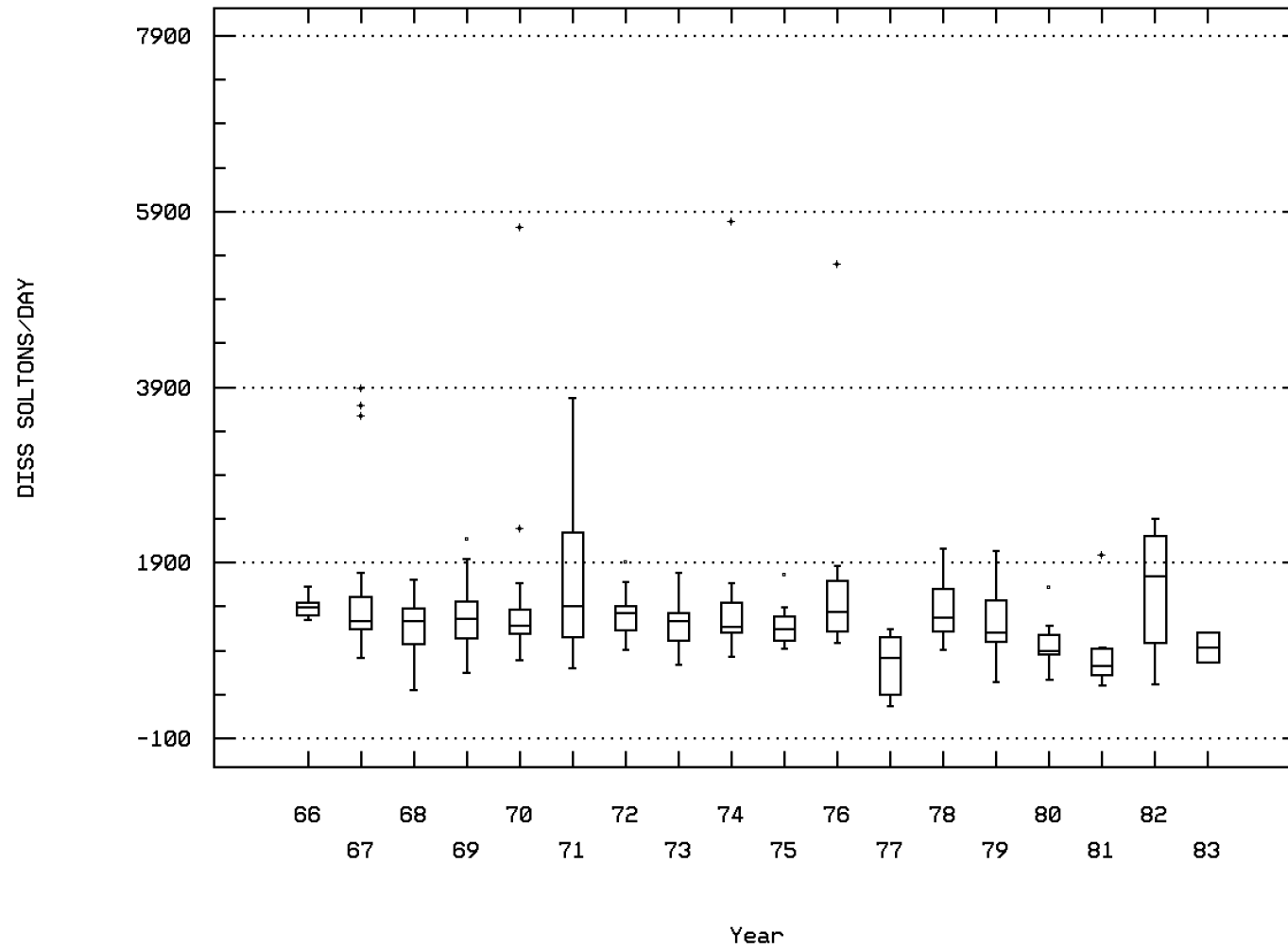
SILICA, DISSOLVED (MG/L AS SI02)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 70302

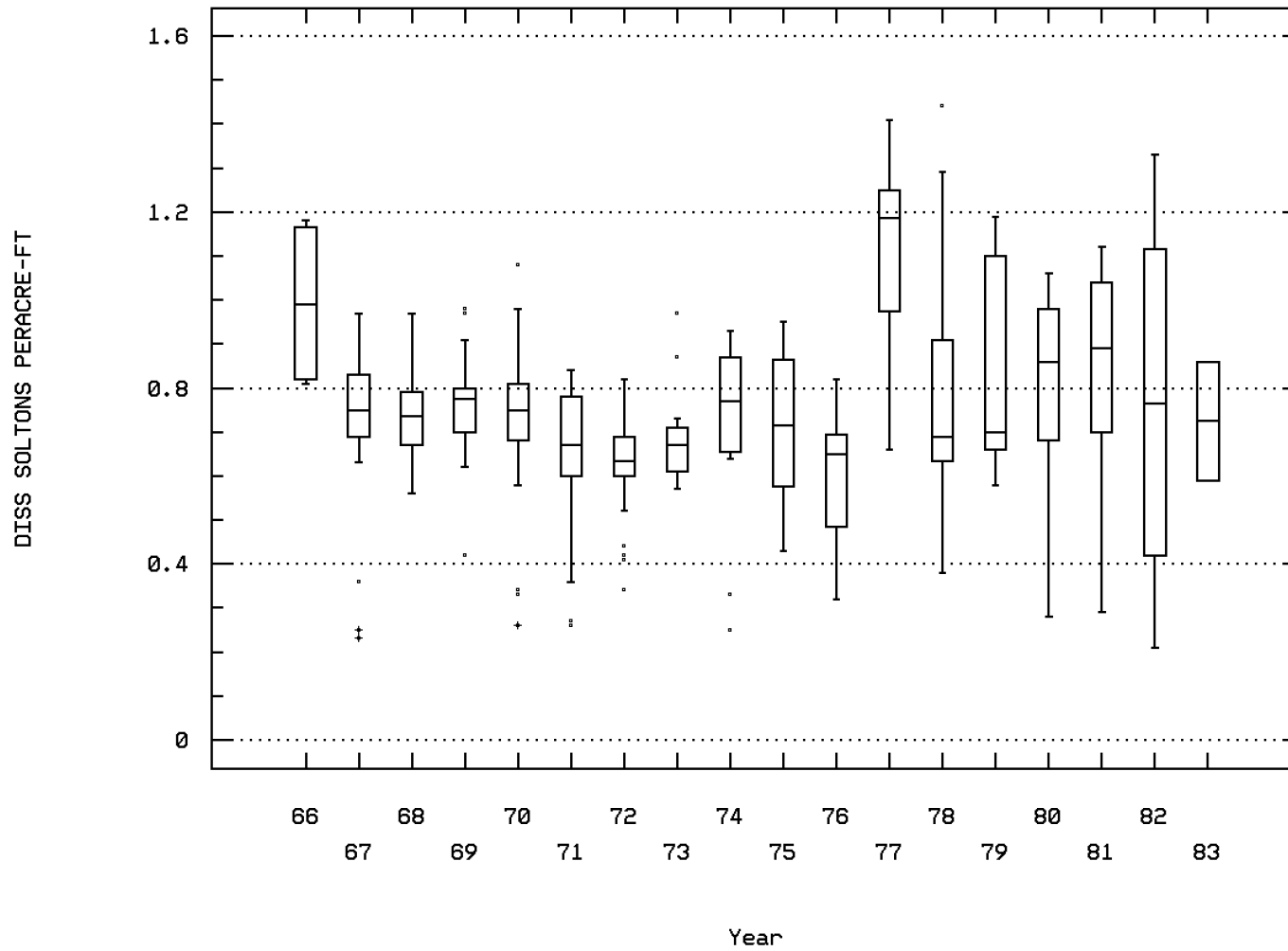
SOLIDS, DISSOLVED-TONS PER DAY



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 70303

SOLIDS, DISSOLVED-TONS PER ACRE-FT



SHOSHONE RIVER NEAR LOVELL WYO

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|-------|--------|----------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 207 | 6. | 7.153 | 24. | 0. | 38.481 | 6.203 | 0. | 1.5 | 12. | 16.5 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 97 | 12. | 9.733 | 40. | -26. | 135.399 | 11.636 | 4. | 8. | 19.5 | 28.4 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 144 | 868. | 895.979 | 1710. | 516. | 40977.559 | 202.429 | 654.5 | 735.75 | 1068. | 1155. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 178 | 582.5 | 662.067 | 4270. | 104. | 197595.137 | 444.517 | 310.6 | 446.5 | 799.75 | 1001. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 259 | 846. | 895.05 | 1990. | 315. | 48389.149 | 219.975 | 690. | 754. | 1000. | 1200. |
| 00300 | OXYGEN, DISSOLVED MG/L | 11/12/78-04/14/97 | 26 | 12.15 | 11.812 | 14.2 | 8.8 | 2.813 | 1.677 | 9.27 | 10.525 | 13.4 | 14. |
| 00400p | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 157 | 8. | 7.988 | 8.5 | 6.8 | 0.07 | 0.264 | 7.68 | 7.8 | 8.2 | 8.3 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 157 | 8. | 7.889 | 8.5 | 6.8 | 0.08 | 0.283 | 7.68 | 7.8 | 8.2 | 8.3 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 157 | 0.01 | 0.013 | 0.158 | 0.003 | 0. | 0.014 | 0.005 | 0.006 | 0.016 | 0.021 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 04/15/72-08/23/79 | 27 | 3.4 | 3.881 | 8.4 | 1.5 | 3.183 | 1.784 | 1.84 | 2.1 | 5.2 | 6.36 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 171 | 186. | 194.602 | 320. | 117. | 1126.041 | 33.557 | 162. | 169. | 212. | 235.8 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 165 | 224. | 235.606 | 390. | 143. | 1631.313 | 40.39 | 197.6 | 205.5 | 258. | 280.4 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 134 | 0. | 0.157 | 7. | 0. | 0.675 | 0.821 | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 101 | 0.8 | 0.907 | 11. | 0.2 | 1.13 | 1.063 | 0.4 | 0.6 | 1. | 1.2 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 74 | 0.08 | 0.14 | 1.4 | 0.005 | 0.035 | 0.187 | 0.02 | 0.04 | 0.183 | 0.33 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 79 | 0.02 | 0.029 | 0.14 | 0. | 0.001 | 0.028 | 0.005 | 0.01 | 0.04 | 0.06 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 187 | 290. | 305.358 | 620. | 160. | 5754.747 | 75.86 | 230. | 248. | 350. | 406.8 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 178 | 99. | 108.584 | 320. | 43. | 1985.318 | 44.557 | 68. | 76.75 | 130. | 160. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 198 | 75. | 80.389 | 160. | 47. | 368.686 | 19.201 | 61. | 66. | 90. | 103.2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-07/09/87 | 198 | 24. | 25.48 | 53. | 11. | 48.84 | 6.989 | 19. | 20. | 29. | 35. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 198 | 74. | 76.076 | 140. | 37. | 278.974 | 16.703 | 57. | 65. | 86. | 95.1 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 187 | 1.9 | 1.915 | 3.1 | 0.9 | 0.112 | 0.335 | 1.5 | 1.7 | 2.1 | 2.3 |
| 00932 | SODIUM, PERCENT | 10/01/66-03/21/83 | 186 | 34. | 35.054 | 49. | 19. | 20.548 | 4.533 | 30. | 32. | 39. | 41. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 198 | 3.8 | 4.232 | 16. | 2.1 | 2.374 | 1.541 | 3.1 | 3.4 | 4.7 | 5.62 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 198 | 10. | 11.672 | 51. | 6. | 25.755 | 5.075 | 8. | 9. | 13. | 17. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 198 | 239.5 | 250.061 | 480. | 120. | 3820.717 | 61.812 | 188.8 | 210. | 270. | 321. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 198 | 0.6 | 0.604 | 1.3 | 0.3 | 0.025 | 0.157 | 0.5 | 0.5 | 0.7 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 198 | 15. | 14.672 | 26. | 1.6 | 6.886 | 2.624 | 12. | 14. | 16. | 17. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 137 | 150. | 158.394 | 300. | 60. | 1332.696 | 36.506 | 120. | 135. | 180. | 200. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 170 | 553.5 | 582.276 | 1060. | 306. | 16197.101 | 127.268 | 453.3 | 496.5 | 636.5 | 759.4 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 177 | 1220.01 | 1239.465 | 2920. | 387. | 88567.632 | 297.603 | 887. | 1090. | 1370.005 | 1600. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 187 | 0.77 | 0.802 | 1.44 | 0.41 | 0.029 | 0.172 | 0.628 | 0.68 | 0.89 | 1.044 |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 04/18/79-08/14/85 | 23 | 0.21 | 0.353 | 1.4 | 0.06 | 0.12 | 0.346 | 0.072 | 0.12 | 0.43 | 1.004 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 83 | 117. | 203.205 | 2020. | 9. | 104924.628 | 323.921 | 30.8 | 54. | 200. | 425.6 |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 76 | 223. | 415.52 | 6110. | 2.5 | 584386.636 | 764.452 | 49.7 | 100.75 | 413.75 | 765.3 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 54 | 12.9 | 13.08 | 22. | 7.2 | 11.717 | 3.423 | 8.75 | 10.5 | 16. | 18. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 25 | 19.9 | 19.26 | 38. | 8. | 46.113 | 6.791 | 10.96 | 14.5 | 22.75 | 28.4 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 36 | 779.5 | 1067.306 | 5168. | 306. | 807069.418 | 898.37 | 481. | 638.75 | 1042. | 2283. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 47 | 639. | 1413.894 | 15700. | 70. | 6272318.923 | 2504.46 | 150.6 | 443. | 1250. | 3220. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 68 | 738. | 744.265 | 1500. | 276. | 50339.69 | 224.365 | 432.6 | 631.75 | 848.25 | 1000. |
| 00300 | OXYGEN, DISSOLVED MG/L | 11/12/78-04/14/97 | 6 | 9.85 | 9.567 | 11. | 7.7 | 1.339 | 1.157 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 42 | 8.05 | 7.983 | 8.5 | 6.5 | 0.128 | 0.358 | 7.63 | 7.8 | 8.2 | 8.37 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 42 | 8.047 | 7.721 | 8.5 | 6.5 | 0.199 | 0.446 | 7.63 | 7.8 | 8.2 | 8.37 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 42 | 0.009 | 0.019 | 0.316 | 0.003 | 0.002 | 0.048 | 0.004 | 0.006 | 0.016 | 0.024 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 04/15/72-08/23/79 | 9 | 4.9 | 5.767 | 16. | 1. | 23.323 | 4.829 | 1. | 2.1 | 8.35 | 16. |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 45 | 160. | 154.111 | 240. | 85. | 832.601 | 28.855 | 108.8 | 137.5 | 174. | 180. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 43 | 195. | 186.558 | 290. | 104. | 1277.252 | 35.739 | 130.6 | 164. | 212. | 219.2 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 36 | 0. | 0.333 | 6. | 0. | 1.314 | 1.146 | 0. | 0. | 0. | 1.3 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 21 | 0.7 | 0.771 | 1.4 | 0.2 | 0.122 | 0.349 | 0.32 | 0.5 | 1.1 | 1.3 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 18 | 0.17 | 0.796 | 7.9 | 0.05 | 3.533 | 1.88 | 0.068 | 0.14 | 0.41 | 3.31 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 18 | 0.03 | 0.043 | 0.11 | 0.005 | 0.001 | 0.034 | 0.005 | 0.02 | 0.068 | 0.101 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|---------------------------------------------------|-------------------|-----|--------|----------|---------|---------|---------------|-----------|-------|--------|--------|--------|
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 47 | 236. | 231.191 | 480. | 86. | 4596.202 | 67.795 | 140. | 185. | 265. | 291.6 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 45 | 68. | 71.8 | 240. | 1. | 1642.255 | 40.525 | 26.4 | 49.5 | 92.5 | 100. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 50 | 62.5 | 61.76 | 120. | 23. | 292.145 | 17.092 | 38.4 | 51.25 | 73. | 77.8 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS Mg) | 10/01/66-07/09/87 | 50 | 19.5 | 19.008 | 43. | 6.9 | 38.57 | 6.21 | 12. | 14.75 | 21.25 | 25.9 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 50 | 75. | 75.02 | 160. | 31. | 529.367 | 23.008 | 43.4 | 61.25 | 87.25 | 100. |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 47 | 2.1 | 2.128 | 3.2 | 1.2 | 0.193 | 0.44 | 1.56 | 1.8 | 2.4 | 2.62 |
| 00932 | SODIUM, PERCENT | 10/01/66-03/21/83 | 47 | 40. | 40.787 | 58. | 34. | 20.171 | 4.491 | 35.8 | 38. | 43. | 45.6 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 50 | 3.45 | 3.512 | 6.4 | 1.8 | 0.896 | 0.946 | 2.22 | 2.9 | 4. | 4.78 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 50 | 9. | 10.48 | 29. | 2. | 23.928 | 4.892 | 5. | 7. | 13. | 15.9 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 50 | 210. | 212.88 | 520. | 83. | 5440.434 | 73.759 | 120. | 175. | 244.25 | 278.6 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 50 | 0.55 | 0.562 | 1.2 | 0.2 | 0.036 | 0.189 | 0.4 | 0.4 | 0.6 | 0.79 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 50 | 15. | 14.32 | 17. | 10. | 2.916 | 1.708 | 12. | 13. | 16. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 35 | 120. | 114.857 | 200. | 30. | 1249.244 | 35.345 | 66. | 90. | 130. | 150. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 42 | 483. | 493.452 | 1040. | 252. | 20343.717 | 142.631 | 304.6 | 417.25 | 549.25 | 682.2 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 46 | 995.5 | 1232.349 | 5290. | 270. | 756311.739 | 869.662 | 547.8 | 786. | 1392.5 | 1985. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 47 | 0.68 | 0.679 | 1.41 | 0.34 | 0.037 | 0.193 | 0.412 | 0.58 | 0.77 | 0.882 |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 04/18/79-08/14/85 | 8 | 0.615 | 0.739 | 1.4 | 0.25 | 0.175 | 0.419 | ** | ** | ** | ** |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 23 | 277. | 883.957 | 6060. | 47. | 2568484.316 | 1602.649 | 80.2 | 204. | 628. | 3958. |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 22 | 542. | 5387.632 | 81500. | 8.9 | 302489668.897 | 17392.23 | 36.1 | 278. | 2610. | 13407. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0019

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|----------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/67-04/14/97 | 52 | 18. | 18.379 | 25.5 | 13. | 8.37 | 2.893 | 15. | 16.5 | 20.6 | 22. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 11/20/74-04/14/97 | 20 | 29. | 29.175 | 35. | 17. | 20.086 | 4.482 | 22.2 | 28. | 32.625 | 34.95 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-02/04/79 | 31 | 1010. | 2246.097 | 8670. | 314. | 5435424.224 | 2331.4 | 554.2 | 740. | 2500. | 6718.8 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-04/14/97 | 45 | 1620. | 2126.911 | 11500. | 104. | 4542147.583 | 2131.231 | 298.2 | 513.5 | 2965. | 4872. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-04/14/97 | 54 | 612.5 | 590.333 | 1050. | 270. | 52875.887 | 229.948 | 293. | 387.5 | 760. | 885. |
| 00300 | OXYGEN, DISSOLVED MG/L | 11/12/78-04/14/97 | 6 | 9. | 9.433 | 11.2 | 7.5 | 2.099 | 1.449 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 10/01/66-04/14/97 | 35 | 8. | 7.951 | 8.7 | 7. | 0.152 | 0.39 | 7.34 | 7.8 | 8.1 | 8.44 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 10/01/66-04/14/97 | 35 | 8. | 7.751 | 8.7 | 7. | 0.193 | 0.44 | 7.34 | 7.8 | 8.1 | 8.44 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-04/14/97 | 35 | 0.01 | 0.018 | 0.1 | 0.002 | 0.001 | 0.023 | 0.004 | 0.008 | 0.016 | 0.051 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 04/15/72-08/23/79 | 6 | 2.65 | 2.6 | 4.8 | 1. | 1.7 | 1.304 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/02/80 | 37 | 139. | 134.622 | 210. | 75. | 1465.853 | 38.286 | 87.2 | 98. | 166. | 186.6 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-08/23/79 | 35 | 170. | 164.571 | 260. | 92. | 2212.193 | 47.034 | 107.6 | 120. | 203. | 228.2 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-08/23/79 | 29 | 0. | 0.276 | 4. | 0. | 1.064 | 1.032 | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/01/71-07/09/87 | 23 | 0.6 | 0.684 | 1.5 | 0.01 | 0.16 | 0.4 | 0.098 | 0.4 | 1. | 1.2 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/13/70-06/30/87 | 19 | 0.13 | 0.162 | 0.4 | 0.005 | 0.011 | 0.104 | 0.03 | 0.09 | 0.23 | 0.32 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10/12/70-07/09/87 | 17 | 0.04 | 0.049 | 0.12 | 0.005 | 0.001 | 0.031 | 0.009 | 0.025 | 0.07 | 0.096 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-03/21/83 | 40 | 180. | 178.425 | 340. | 75. | 4806.558 | 69.329 | 96.2 | 120. | 231.5 | 258.5 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-08/13/81 | 37 | 48. | 46.622 | 150. | 5. | 1031.186 | 32.112 | 9.4 | 19.5 | 65. | 85.2 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-07/09/87 | 43 | 45. | 47.349 | 88. | 21. | 313.375 | 17.702 | 27. | 31. | 60. | 71.2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS Mg) | 10/01/66-07/09/87 | 43 | 13. | 14.151 | 30. | 4. | 41.952 | 6.477 | 6.66 | 8. | 19. | 23. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-07/09/87 | 43 | 43. | 54.279 | 120. | 18. | 825.206 | 28.726 | 23. | 27. | 76. | 94.6 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-03/21/83 | 40 | 1.55 | 1.715 | 2.9 | 0.8 | 0.337 | 0.58 | 1.01 | 1.125 | 2.175 | 2.59 |
| 00932 | SODIUM, PERCENT | 10/01/66-03/21/83 | 40 | 38. | 38.35 | 45. | 27. | 16.695 | 4.086 | 34. | 35. | 41. | 44. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-07/09/87 | 43 | 2.5 | 2.628 | 4.8 | 1.3 | 0.762 | 0.873 | 1.6 | 1.9 | 3.3 | 3.8 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-07/09/87 | 43 | 7. | 6.488 | 18. | 1. | 15.589 | 3.948 | 2. | 3. | 9. | 11. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-07/09/87 | 43 | 120. | 149.209 | 340. | 41. | 6951.931 | 83.378 | 55.2 | 72. | 220. | 255.2 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-07/09/87 | 43 | 0.4 | 0.414 | 0.8 | 0.2 | 0.026 | 0.163 | 0.2 | 0.3 | 0.6 | 0.6 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-07/09/87 | 43 | 15. | 15.116 | 17. | 11. | 1.439 | 1.199 | 13.4 | 15. | 16. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-01/11/76 | 29 | 100. | 98.966 | 190. | 20. | 1909.606 | 43.699 | 40. | 65. | 135. | 150. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-03/21/83 | 36 | 390. | 387.639 | 721. | 155. | 26937.952 | 164.128 | 191.1 | 235.75 | 514. | 618. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-03/21/83 | 40 | 1445. | 1802.926 | 5780. | 397. | 1675444.8 | 1294.39 | 605.7 | 959. | 2040. | 3749.001 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-03/21/83 | 40 | 0.475 | 0.514 | 0.98 | 0.21 | 0.05 | 0.223 | 0.251 | 0.323 | 0.685 | 0.799 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

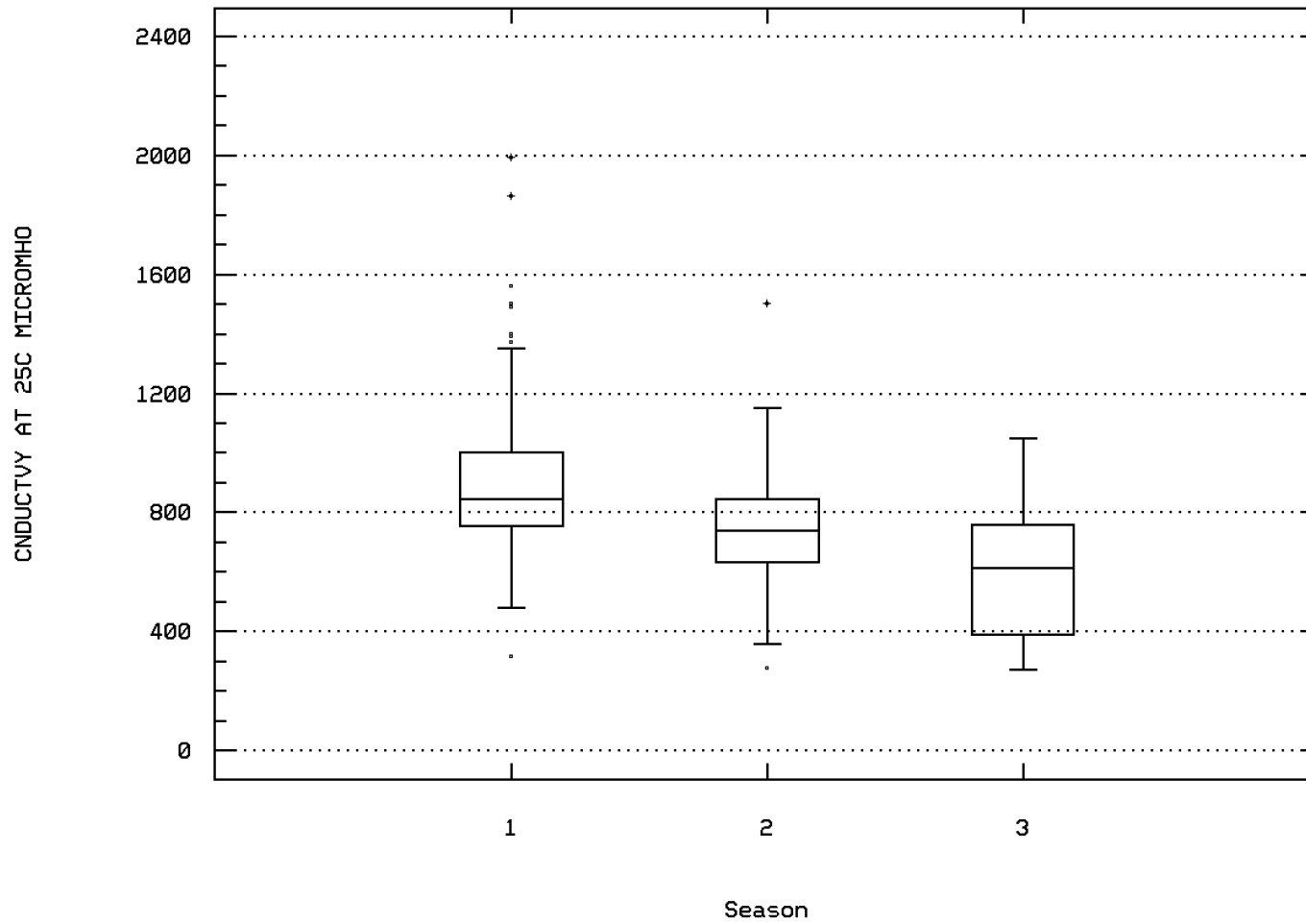
Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0019

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|---------------|-----------|------|-------|--------|--------|
| 71886 PHOSPHORUS, TOTAL, AS PO4 - MG/L | 04/18/79-08/14/85 | 6 | 0.49 | 0.608 | 1.2 | 0.09 | 0.169 | 0.411 | ** | ** | ** | ** |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/07/71-08/31/92 | 28 | 291.5 | 447. | 2600. | 24. | 243057.778 | 493.009 | 93.7 | 147.5 | 649.25 | 792.7 |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/07/71-08/18/82 | 25 | 1020. | 6019.868 | 80700. | 6.7 | 254251473.602 | 15945.265 | 90.2 | 290.5 | 5845. | 11040. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0019 Parameter Code: 00095

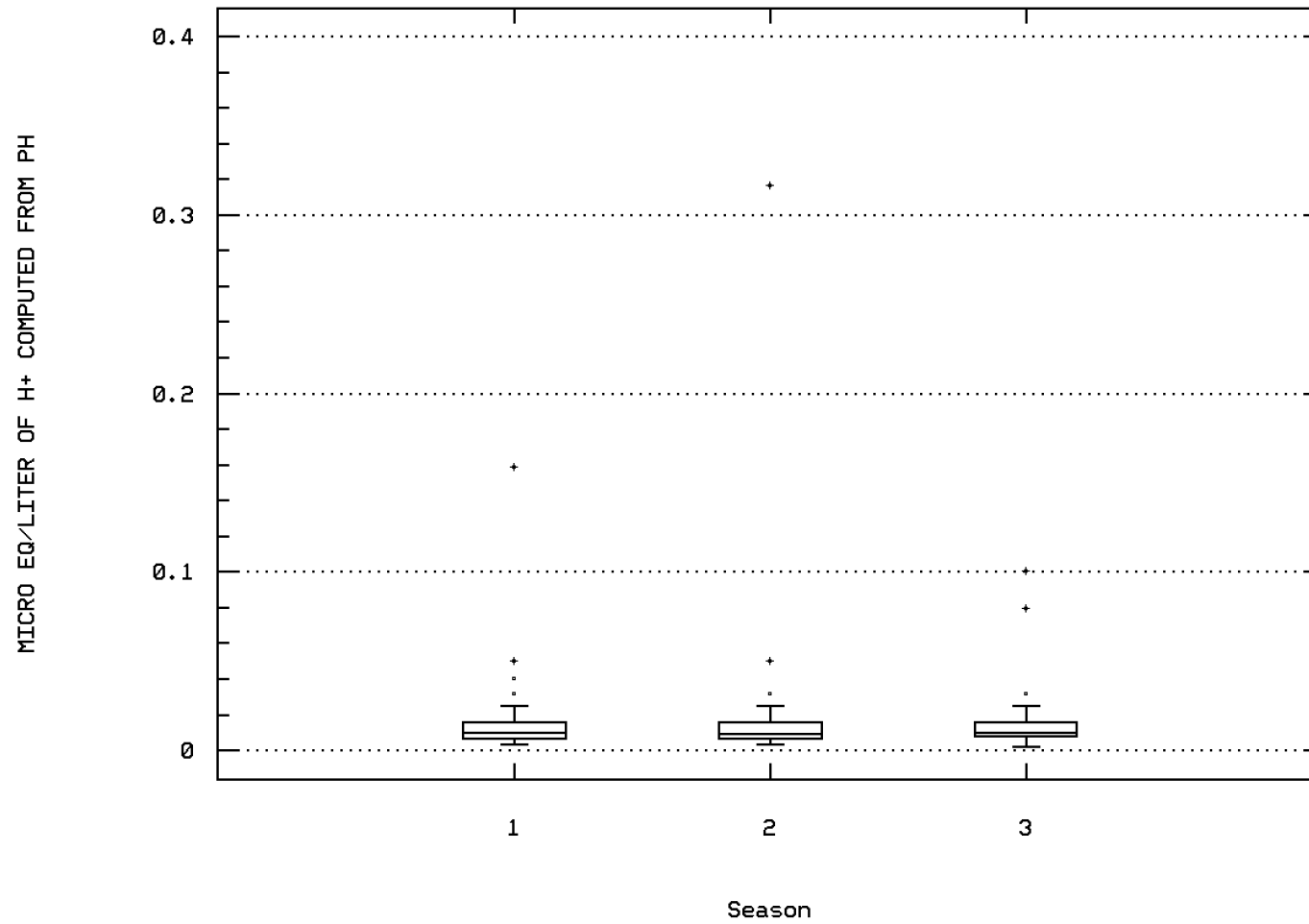
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



SHOSHONE RIVER NEAR LOVELL WYO

Station Inventory for Station: BICA0020

NPS Station ID: BICA0020
 Location: SHOSHONI RIVER NEAR LOVELL
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes: 1021500 009490 36810 4430 5300
 RMI-Miles: 1149.40 1582.00 279.40 136.20 014.00
 HUC: 10080014
 Major Basin: MISSOURI R.
 Minor Basin: YELLOWSTONE BASIN
 RF1 Index: 10080014005
 RF3 Index: 10080014096300.00
 Description:
 AT USGS GAGING STATION 30FT UPSTREAM FROM BRIDGE ON US HIGHWAY 310 AND1. MI. WEST OF LOVELL.

LAT/LON: 44.838892/-108.433337

Depth of Water: 100
 Elevation: 0

RF1 Mile Point: 3.750
 RF3 Mile Point: 6.93

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 000542 /USGS06285100
 Within Park Boundary: No

Date Created: 01/31/77

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.49

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0020

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|------|--------|---------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/76-04/19/78 | 9 | 14. | 13.333 | 24. | 1. | 61.25 | 7.826 | 1. | 7. | 20.5 | 24. |
| 00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 06/09/76-04/19/78 | 8 | 29.5 | 29.875 | 64. | 3. | 522.982 | 22.869 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/76-04/19/78 | 8 | 947.5 | 857.875 | 1284. | 236. | 127367.839 | 356.886 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 06/09/76-04/19/78 | 9 | 11.6 | 10.933 | 13. | 9.1 | 2.44 | 1.562 | 9.1 | 9.3 | 12.3 | 13. |
| 00400 PH (STANDARD UNITS) | 06/09/76-04/19/78 | 9 | 8. | 8.067 | 8.6 | 7.4 | 0.175 | 0.418 | 7.4 | 7.75 | 8.45 | 8.6 |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/09/76-04/19/78 | 9 | 8. | 7.893 | 8.6 | 7.4 | 0.209 | 0.457 | 7.4 | 7.75 | 8.45 | 8.6 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/09/76-04/19/78 | 9 | 0.01 | 0.013 | 0.04 | 0.003 | 0. | 0.012 | 0.003 | 0.004 | 0.019 | 0.04 |
| 00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L | 06/09/76-04/19/78 | 9 | 700. | 652.444 | 935. | 174. | 64960.278 | 254.873 | 174. | 483. | 886.5 | 935. |
| 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L) | 06/09/76-04/19/78 | 9 | 80. | 191. | 1224. | 6. | 152205.75 | 390.136 | 6. | 20. | 122. | 1224. |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/76-08/17/77 | 6 | 0.79 | 0.743 | 1. | 0.34 | 0.06 | 0.245 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/09/77-04/19/78 | 2 | 0.905 | 0.905 | 1.63 | 0.18 | 1.051 | 1.025 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/76-04/19/78 | 9 | 0.1 | 0.194 | 1. | 0.03 | 0.093 | 0.306 | 0.03 | 0.05 | 0.145 | 1. |
| 01501 ALPHA, TOTAL | 06/09/76-04/19/78 | 8 ## | 2.625 | 9.5 | 50. | 0.25 | 286.464 | 16.925 | ** | ** | ** | ** |
| 01502 ALPHA, TOTAL, COUNTING ERROR | 06/09/76-04/19/78 | 8 ## | 10.75 | 12.063 | 30. | 4. | 68.531 | 8.278 | ** | ** | ** | ** |
| 03501 BETA, TOTAL | 06/09/76-04/19/78 | 8 | 9.5 | 15. | 52. | 1. | 293.714 | 17.138 | ** | ** | ** | ** |
| 03502 BETA, TOTAL, COUNTING ERROR | 06/09/76-04/19/78 | 8 | 13.5 | 10.063 | 17. | 1.5 | 44.174 | 6.646 | ** | ** | ** | ** |
| 31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 06/09/76-04/19/78 | 8 | 205. | 295.875 | 884. | 3. | 88005.839 | 296.658 | ** | ** | ** | ** |
| 31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 06/09/76-04/19/78 | 8 | 2.311 | 2.11 | 2.946 | 0.477 | 0.648 | 0.805 | ** | ** | ** | ** |
| 31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | GEOMETRIC MEAN = | | | 128.731 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0020

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00076 TURBIDITY, HACH TURBIDIMETER | Other-Hi Lim. | 50. | 8 | 2 | 0.25 | 4 | 0 | 0.00 | 4 | 2 | 0.50 | | | | | | |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| 00400 PH | Fresh Chronic | 9. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| | Other-Lo Lim. | 6.5 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 6 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | | | | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| 31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH | Other-Hi Lim. | 200. | 8 | 4 | 0.50 | 5 | 2 | 0.40 | 3 | 2 | 0.67 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0021

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0021 Location: SHOSHONE RIVER NR LOVELL WY Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080014 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080014 RF3 Index: 10080014004800.00 Description: | LAT/LON: 44.850004/-108.383337 Depth of Water: 0 Elevation: 6800 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_WRDS_7 /WRDS-03319:0 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/01/97 On/Off RF1: On/Off RF3: |

The Environmental Protection Agency collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Lovell WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0021

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|-------|-------|-------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 02/05/75-12/16/75 | 14 | 0.6 | 0.607 | 0.7 | 0.6 | 0.001 | 0.027 | 0.6 | 0.6 | 0.6 | 0.65 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/05/75-12/16/75 | 14 | 2.425 | 4.423 | 15.2 | 0.013 | 26.976 | 5.194 | 0.031 | 0.098 | 7.425 | 13.6 |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 02/05/75-12/16/75 | 14 | 14.75 | 15.5 | 28. | 6.5 | 48.971 | 6.998 | 6.55 | 9.225 | 20.75 | 27. |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 02/05/75-12/16/75 | 14 | 0.075 | 0.096 | 0.5 | 0.02 | 0.015 | 0.121 | 0.02 | 0.035 | 0.1 | 0.3 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 02/05/75-12/16/75 | 14 | 6. | 5.789 | 10. | 0.34 | 9.365 | 3.06 | 1.42 | 2.95 | 8.65 | 9.85 |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/05/75-12/16/75 | 14 | 3.6 | 3.426 | 6.9 | 0.035 | 4.786 | 2.188 | 0.08 | 1.865 | 5.05 | 6.65 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0021

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 14 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | 9 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0022

| | | | |
|---------------------------------------|--------------------------------|-------------------------------------------------|------------------------|
| NPS Station ID: BICA0022 | LAT/LON: 44.850004/-108.384170 | Agency: 11NPSWRD | Date Created: 11/01/97 |
| Location: SHOSHONE RIVER NR LOVELL WY | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /TYPA/AMBNT/STREAM | | STORET Station ID(s): BICA_WRDS_8 /WRDS-03318:0 | |
| RMI-Indexes: | | Within Park Boundary: No | |
| RMI-Miles: | | | |
| HUC: 10080014 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 6800 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080014 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
The Environmental Protection Agency collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Lovell WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0022

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|------|--------|--------|---------|---------|------------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 02/03/75-02/05/76 | 6 | 0.403 | 138.97 | 825. | 0.006 | 112962.846 | 336.099 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/03/75-01/14/76 | 6 ## | 0.026 | 0.033 | 0.083 | 0.013 | 0.001 | 0.028 | ** | ** | ** | ** |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 02/03/75-02/05/76 | 7 | 6.6 | 6.429 | 12. | 1.4 | 10.122 | 3.182 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 02/03/75-02/05/76 | 7 | 0.3 | 0.303 | 0.5 | 0.02 | 0.021 | 0.146 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 02/03/75-02/05/76 | 7 | 0.25 | 0.279 | 0.6 | 0.05 | 0.044 | 0.211 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/03/75-01/14/76 | 5 | 0.067 | 0.074 | 0.11 | 0.05 | 0.001 | 0.027 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0022

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 7 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | 7 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0023

NPS Station ID: BICA0023 LAT/LON: 44.850892/-108.387449
 Location: SHOSHONE RIVER 1/2 MILE NORTH OF LOVELL WYOMING
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080014 RF1 Mile Point: 0.000
 RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75
 Description:

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_CSU_SHOSH
 Within Park Boundary: No

Date Created: 12/20/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE LOVELL WYOMING-BIG HORN CO. 7.5 MINUTE APPROXIMATELY 1/2 MILE NORTH OF LOVELL WYOMING. SAMPLES FOR THIS SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE SHOESHONE RIVER SITE WERE COLLECTED FROM JUNE 1980 TO APRIL 1981. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0023

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/80-04/01/81 | 11 | 11. | 9.273 | 17. | -1. | 55.218 | 7.431 | 2.4 | 6. | 17. | 17. |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/80-11/26/80 | 8 | 761. | 773.375 | 966. | 483. | 21883.696 | 147.931 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/09/80-04/01/81 | 10 | 7.9 | 7.8 | 8.1 | 7.2 | 0.129 | 0.359 | 7.2 | 7.5 | 8.1 | 8.1 |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/09/80-04/01/81 | 10 | 7.889 | 7.648 | 8.1 | 7.2 | 0.154 | 0.393 | 7.2 | 7.5 | 8.1 | 8.1 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/09/80-04/01/81 | 10 | 0.013 | 0.022 | 0.063 | 0.008 | 0. | 0.022 | 0.008 | 0.008 | 0.035 | 0.063 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 06/09/80-10/16/80 | 7 | 190. | 191.429 | 224. | 159. | 451.952 | 21.259 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/09/80-10/16/80 | 7 | 0.051 | 0.054 | 0.093 | 0.018 | 0.001 | 0.03 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 4 | 0.84 | 0.925 | 1.4 | 0.62 | 0.128 | 0.358 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/80-08/06/80 | 4 | 0.26 | 0.263 | 0.3 | 0.23 | 0.001 | 0.033 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 06/09/80-04/01/81 | 12 | 0.024 | 0.029 | 0.057 | 0.007 | 0. | 0.016 | 0.008 | 0.016 | 0.044 | 0.055 |
| 82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 06/09/80-11/26/80 | 9 | 63. | 319.778 | 2400. | 10. | 609777.444 | 780.882 | 10. | 32. | 110. | 2400. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0023

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0023

| Parameter | Std. Type | Std. Value | Total | Exceed | Prop. | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------|----------------|-------|----------|-----------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 4 | 0 | 0.00 | | | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 82079 | TURBIDITY, LAB | Other-Hi Lim. | 50. | 9 | 6 | 0.67 | 5 | 3 | 0.60 | 1 | 1 | 1.00 | 3 | 2 | 0.67 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0024

NPS Station ID: BICA0024
Location: BIGHORN R AT BIGHORN LAKE NR KAN
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin:
Minor Basin:
RF1 Index: 10080010039
RF3 Index: 10080010019400.00
Description:

LAT/LON: 44.853615/-108.175281

Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.910
RF3 Mile Point: 0.75

Agency: 112WRD
FIPS State/County: 56003 WYOMING/BIG HORN
STORET Station ID(s): 445113108103100
Within Park Boundary: Yes

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 3.30
Distance from RF3: 0.03

Date Created: 05/18/77

On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: BICA0024

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 09/17/76-09/17/76 | 1 | 976. | 976. | 976. | 976. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0025

NPS Station ID: BICA0025
Location: SHOSHONE RIVER
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080014
Major Basin: T/YELLOWTAIL RESERVOIR
Minor Basin: BRDG .3 MI N OF XING W CHI,BUR,QY RR
RF1 Index: 10080014059
RF3 Index: 10080010004201.12
Description:
BRDG SAMPLE ON MEDIUM DUTY RD .3 MI N OF INTERSECTION W CHICAGO

LAT/LON: 44.858337/-108.330559

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.240
RF3 Mile Point: 1.11

BURLINGTON AND QUINCY RR SEC 5/6 R95W T56N

Agency: 11EPALES
FIPS State/County: 56000 WYOMING/
STORET Station ID(s): 5614B1
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.01

Date Created: / /

On/Off RF1: OFF
On/Off RF3:

Parameter Inventory for Station: BICA0025

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|-------|-------|-------|-------|
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 10/05/74-09/10/75 | 13 | 0.06 | 0.068 | 0.135 | 0.025 | 0.001 | 0.036 | 0.027 | 0.03 | 0.1 | 0.125 |
| 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-11/10/74 | 2 | 0.578 | 0.578 | 0.74 | 0.416 | 0.052 | 0.229 | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 10/05/74-09/10/75 | 13 | 1.45 | 1.388 | 2.1 | 0.5 | 0.283 | 0.532 | 0.6 | 0.925 | 2. | 2.06 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 10/05/74-09/10/75 | 13 | 0.75 | 0.693 | 0.94 | 0.28 | 0.048 | 0.219 | 0.32 | 0.5 | 0.89 | 0.936 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/05/74-09/10/75 | 13 | 0.29 | 0.413 | 1.25 | 0.07 | 0.128 | 0.358 | 0.076 | 0.163 | 0.617 | 1.102 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 10/05/74-09/10/75 | 13 | 0.035 | 0.044 | 0.088 | 0.015 | 0. | 0.022 | 0.015 | 0.028 | 0.06 | 0.081 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0025

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 13 | 0 | 0.00 | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0026

NPS Station ID: BICA0026
 Location: SHOSHONE RIVER AT KANE, WY
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin:
 Minor Basin:
 RF1 Index: 10080014
 RF3 Index: 10080014001600.00
 Description:

LAT/LON: 44.858616/-108.331116

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.20

Agency: 112WRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 06286200
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|------|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/59-08/23/89 | 82 | 13. | 11.717 | 25.5 | 0. | 50.556 | 7.11 | 0. | 4.5 | 17.05 | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 12/17/81-08/23/89 | 42 | 17.5 | 13.56 | 35. | -25. | 195.161 | 13.97 | 4. | 9.375 | 26.875 | 33.95 |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 10/04/82-08/23/89 | 36 | 665.5 | 665.611 | 710. | 633. | 164.759 | 12.836 | 651. | 658.25 | 673.75 | 680. |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 173 | 921. | 1225.075 | 10400. | 241. | 1805735.058 | 1343.776 | 490. | 678. | 1200. | 1692. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 108 | 670.5 | 944.565 | 5600. | 150. | 786327.818 | 886.751 | 329.8 | 430.5 | 1105. | 1702. |
| 00076 | TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 02/10/82-09/08/83 | 16 | 37.5 | 62.969 | 285. | 7. | 5509.349 | 74.225 | 8.05 | 11.25 | 97.5 | 183.5 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 112 | 5. | 6.563 | 90. | 1. | 81.996 | 9.055 | 2. | 4. | 7. | 9.7 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 206 | 1090. | 1100.223 | 2540. | 312. | 104407.921 | 323.122 | 769.8 | 945.25 | 1242.5 | 1513. |
| 00300 | OXYGEN, DISSOLVED MG/L | 02/10/82-08/23/89 | 42 | 10.2 | 10.255 | 13.2 | 6.7 | 2.813 | 1.677 | 7.99 | 8.875 | 11.525 | 12.84 |
| 00301 | OXYGEN, DISSOLVED, PERCENT OF SATURATION % | 10/04/82-06/06/83 | 7 | 98. | 100.071 | 117. | 89. | 103.369 | 10.167 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 206 | 7.7 | 7.773 | 8.5 | 7. | 0.114 | 0.338 | 7.3 | 7.5 | 8. | 8.2 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 206 | 7.7 | 7.648 | 8.5 | 7. | 0.13 | 0.361 | 7.3 | 7.5 | 8. | 8.2 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 206 | 0.02 | 0.022 | 0.1 | 0.003 | 0. | 0.018 | 0.006 | 0.01 | 0.032 | 0.05 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/65-09/16/68 | 63 | 187. | 191.429 | 239. | 100. | 618.023 | 24.86 | 165.8 | 176. | 212. | 227.2 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 162 | 234. | 242.691 | 450. | 113. | 2510.165 | 50.102 | 196.9 | 219. | 270. | 299.7 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 149 | 0. | 0.047 | 7. | 0. | 0.329 | 0.573 | 0. | 0. | 0. | 0. |
| 00600 | NITROGEN, TOTAL (MG/L AS N) | 12/02/80-03/21/83 | 16 | 1.65 | 1.806 | 3.5 | 1.1 | 0.538 | 0.733 | 1.1 | 1.225 | 2.475 | 3.01 |
| 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 12/02/80-03/21/83 | 15 | 0.68 | 0.899 | 2.3 | 0.45 | 0.278 | 0.527 | 0.462 | 0.54 | 1.2 | 1.88 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 12/02/80-08/23/89 | 45 | 0.1 | 0.104 | 0.35 | 0.02 | 0.003 | 0.056 | 0.042 | 0.065 | 0.13 | 0.144 |
| 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/10/82-02/10/82 | 1 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 12/02/80-08/23/89 | 45 | 0.8 | 1.014 | 6.8 | 0.1 | 0.981 | 0.99 | 0.4 | 0.6 | 1.2 | 1.64 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 12/02/80-08/23/89 | 45 | 1. | 0.922 | 1.7 | 0.1 | 0.146 | 0.382 | 0.36 | 0.675 | 1.2 | 1.4 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 12/02/80-08/23/89 | 45 | 0.1 | 0.24 | 4.2 | 0.02 | 0.383 | 0.619 | 0.03 | 0.05 | 0.215 | 0.398 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 162 | 354.5 | 365.352 | 794. | 117. | 11078.714 | 105.255 | 270.3 | 309.75 | 409. | 478.7 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 162 | 159. | 166.827 | 456. | 17. | 4874.603 | 69.818 | 100.9 | 131.5 | 189. | 261.4 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 162 | 89.5 | 92.34 | 185. | 31. | 698.474 | 26.429 | 66.3 | 81. | 104. | 120.4 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 162 | 32. | 32.865 | 81. | 6. | 126.905 | 11.265 | 21. | 27. | 38. | 45. |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 08/20/58-09/16/68 | 162 | 115. | 118.29 | 288. | 23. | 1679.772 | 40.985 | 77.3 | 96.5 | 136.25 | 172.1 |
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 162 | 2.6 | 2.652 | 4.7 | 0.9 | 0.381 | 0.617 | 1.9 | 2.275 | 3. | 3.5 |
| 00932 | SODIUM, PERCENT | 08/20/58-09/16/68 | 76 | 41. | 40.592 | 48. | 30. | 20.485 | 4.526 | 35. | 36.25 | 44. | 46. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 162 | 3.9 | 4.095 | 8.7 | 1. | 1.559 | 1.249 | 2.8 | 3.4 | 4.6 | 5.57 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 162 | 11. | 12.364 | 32. | 2. | 23.997 | 4.899 | 8. | 10. | 15. | 19. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 162 | 371. | 390.296 | 990. | 59. | 21228.818 | 145.701 | 240.3 | 319. | 437. | 594.4 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 162 | 0.6 | 0.596 | 1.2 | 0.2 | 0.023 | 0.153 | 0.4 | 0.5 | 0.7 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 162 | 16. | 15.693 | 22. | 5.2 | 3.468 | 1.862 | 14. | 15. | 17. | 18. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 162 | 180. | 197.593 | 500. | 30. | 6485.473 | 80.532 | 110. | 150. | 230. | 320. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 49 | 10. | 13.061 | 120. | 0. | 480.017 | 21.909 | 0. | 0. | 10. | 20. |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 02/08/89-08/23/89 | 3 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|----------------------------------------------------|-------------------|--------|----------|----------|---------|----------|--------------|----------|---------|---------|----------|----------|
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 42 | 340. | 431.357 | 1230. | 10. | 110250.528 | 332.04 | 61.5 | 163.75 | 700. | 958. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 42 | 2.531 | 2.465 | 3.09 | 1. | 0.206 | 0.454 | 1.789 | 2.214 | 2.845 | 2.981 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | 291.546 | | | | | | | | | |
| 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 10/05/62-09/01/66 | 53 | 6000. | 6654.717 | 35000. | 1000. | 25245217.707 | 5024.462 | 2000. | 4000. | 7750. | 8600. |
| 34609 | 2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39034 | PERTHANE IN WHOLE WATER SAMPLE (UG/L) | 10/25/78-09/04/80 | 5 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39250 | NAPTHALENES, POLYCHLORINATED (UG/L) | 09/23/76-09/04/80 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39251 | PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39333 | ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39343 | GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39350 | CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39351 | CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG | 09/23/76-09/04/80 | 9 | 0. | 0.111 | 1. | 0. | 0.111 | 0.333 | 0. | 0. | 0. | 1. |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39363 | DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0. | 0.233 | 1.7 | 0. | 0.307 | 0.555 | 0. | 0. | 0.15 | 1.7 |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39368 | DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0.1 | 0.133 | 0.5 | 0. | 0.023 | 0.15 | 0. | 0.05 | 0.15 | 0.5 |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39373 | DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0. | 0.178 | 1.4 | 0. | 0.212 | 0.46 | 0. | 0. | 0.1 | 1.4 |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39383 | DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/23/76-09/04/80 | 9 | 0. | 0.033 | 0.1 | 0. | 0.003 | 0.05 | 0. | 0. | 0.1 | 0.1 |
| 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L) | 06/08/77-09/04/80 | 8 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39389 | ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39393 | ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39398 | ETHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39403 | TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39413 | HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0. | 0.011 | 0.1 | 0. | 0.001 | 0.033 | 0. | 0. | 0. | 0.1 |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39423 | HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.) | 09/23/76-09/04/80 | 9 | 0. | 0.011 | 0.1 | 0. | 0.001 | 0.033 | 0. | 0. | 0. | 0.1 |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39481 | METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39519 | PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 09/23/76-09/04/80 | 9 | 0. | 0.111 | 1. | 0. | 0.111 | 0.333 | 0. | 0. | 0. | 1. |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0.001 | 0.01 | 0. | 0. | 0.003 | 0. | 0. | 0. | 0.01 |
| 39570 | DIAZINON IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0.01 | 0.301 | 1.4 | 0. | 0.324 | 0.569 | 0. | 0. | 0.625 | 1.4 |
| 39731 | 2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0.001 | 0.01 | 0. | 0. | 0.003 | 0. | 0. | 0. | 0.01 |
| 39741 | 2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39755 | MIREX, TOTAL (UG/L) | 10/25/78-09/04/80 | 5 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39758 | MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS) | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39761 | SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS) | 05/11/78-09/04/80 | 6 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39786 | TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 39790 | METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L) | 09/23/76-09/04/80 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 08/20/58-09/16/68 | 162 | 783.5 | 815.765 | 1840. | 196. | 67185.622 | 259.202 | 555.6 | 684. | 912.75 | 1167. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/03/58-09/16/68 | 37 | 720. | 831.676 | 1730. | 517. | 86931.836 | 294.842 | 557.6 | 640.5 | 923.5 | 1200. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 162 | 1930.005 | 2146.404 | 10590.1 | 737. | 1214356.564 | 1101.978 | 1213.01 | 1505.01 | 2442.508 | 3160.003 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 162 | 1.065 | 1.11 | 2.51 | 0.27 | 0.124 | 0.353 | 0.756 | 0.93 | 1.24 | 1.587 |
| 70331 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 10/01/59-09/12/61 | 22 | 85.5 | 78.773 | 98. | 36. | 347.803 | 18.649 | 51. | 61. | 95. | 97.7 |
| 70332 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM | 10/01/59-09/12/61 | 22 | 95. | 88.455 | 100. | 66. | 145.879 | 12.078 | 69.9 | 74. | 98. | 99. |
| 70333 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM | 10/01/59-09/12/61 | 21 | 99. | 97.143 | 100. | 89. | 13.529 | 3.678 | 89.6 | 94.5 | 100. | 100. |
| 70334 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM | 10/01/59-05/19/61 | 13 | 100. | 99.846 | 100. | 99. | 0.141 | 0.376 | 99. | 100. | 100. | 100. |
| 70335 | SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM | 11/05/59-11/30/59 | 2 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 70337 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM | 10/01/59-10/07/60 | 10 | 20.5 | 25.6 | 53. | 11. | 202.267 | 14.222 | 11.1 | 15. | 34.5 | 52.2 |
| 70338 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 10/01/59-07/02/64 | 25 | 40. | 39.8 | 71. | 17. | 243.667 | 15.61 | 17.6 | 27. | 48. | 63.6 |
| 70340 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 10/01/59-07/02/64 | 25 | 62. | 58.36 | 91. | 27. | 393.657 | 19.841 | 28.6 | 41.5 | 75.5 | 85.8 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|---------------------------------------------------|-------------------|--------|-------|---------|---------|----------|---------------|----------|-------|-------|--------|--------|
| 70342 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 10/01/59-07/02/64 | 25 | 85. | 79.16 | 98. | 36. | 319.807 | 17.883 | 51. | 64. | 95. | 97.4 |
| 70343 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 10/01/59-07/02/64 | 25 | 95. | 89.12 | 100. | 66. | 132.11 | 11.494 | 70.8 | 75. | 98. | 99. |
| 70344 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 10/01/59-07/02/64 | 24 | 99. | 97.292 | 100. | 89. | 12.303 | 3.507 | 90.5 | 95.25 | 100. | 100. |
| 70345 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 10/01/59-07/02/64 | 15 | 100. | 99.867 | 100. | 99. | 0.124 | 0.352 | 99. | 100. | 100. | 100. |
| 70346 | SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM | 11/05/59-11/30/59 | 2 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 02/10/82-02/10/82 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH4) | 12/02/80-12/02/80 | 1 | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 10/01/64-09/21/65 | 27 | 1.8 | 1.781 | 2.5 | 0.9 | 0.207 | 0.455 | 0.9 | 1.7 | 2. | 2.42 |
| 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 47 | 4.4 | 4.202 | 8.6 | 0.1 | 3.131 | 1.769 | 1.6 | 3.2 | 5.3 | 6.24 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 148 | 3. | 3.097 | 6.7 | 0.1 | 2.519 | 1.587 | 1. | 2. | 4.175 | 5.21 |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 10/01/64-09/21/65 | 25 | 5. | 4.72 | 9. | 1. | 8.793 | 2.965 | 1. | 1.5 | 8. | 8.4 |
| 71870 | BROMIDE (MG/L AS BR) | 11/04/63-09/21/65 | 38 | 0.395 | 0.393 | 0.45 | 0.33 | 0.001 | 0.033 | 0.349 | 0.368 | 0.42 | 0.44 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 88 | 10. | 22.841 | 180. | 0. | 1432.066 | 37.843 | 0. | 0. | 20. | 90. |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - MG/L | 12/02/80-10/16/85 | 27 | 0.4 | 0.548 | 1.9 | 0.06 | 0.236 | 0.486 | 0.09 | 0.15 | 0.74 | 1.4 |
| 71887 | NITROGEN, TOTAL, AS NO3 - MG/L | 12/02/80-03/21/83 | 16 | 7.2 | 7.975 | 16. | 4.6 | 11.445 | 3.383 | 4.6 | 5.35 | 11.325 | 13.2 |
| 80154 | SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 10/01/59-07/02/64 | 25 | 657. | 1571.32 | 9970. | 240. | 4702592.06 | 2168.546 | 305.4 | 496.5 | 1520. | 4678. |
| 80155 | SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 10/01/59-07/02/64 | 25 | 1980. | 8566.08 | 74900. | 353. | 370176440.827 | 19239.97 | 432.4 | 750. | 4605. | 42680. |
| 81886 | PERTHANE IN SEDIMENT DRY WEIGHT UG/KG | 10/24/79-09/04/80 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 82183 | 2,4-DP (DICHLORPROP) TOTAL UG/L | 10/24/79-09/04/80 | 3 | 0. | 0.003 | 0.01 | 0. | 0. | 0.006 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0026

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00076 | TURBIDITY, HACH TURBIDIMETER | Other-Hi Lim. | 50. | 16 | 8 | 0.50 | 10 | 2 | 0.20 | 3 | 3 | 1.00 | 3 | 3 | 1.00 | | |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 42 | 0 | 0.00 | 27 | 0 | 0.00 | 8 | 0 | 0.00 | 7 | 0 | 0.00 | | |
| 00400 | PH | Fresh Chronic | 9. | 206 | 0 | 0.00 | 134 | 0 | 0.00 | 38 | 0 | 0.00 | 34 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 206 | 0 | 0.00 | 134 | 0 | 0.00 | 38 | 0 | 0.00 | 34 | 0 | 0.00 | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 45 | 0 | 0.00 | 30 | 0 | 0.00 | 8 | 0 | 0.00 | 7 | 0 | 0.00 | | |
| 00940 | CHLORIDE,TOTAL IN WATER | Fresh Acute | 860. | 162 | 0 | 0.00 | 105 | 0 | 0.00 | 30 | 0 | 0.00 | 27 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 162 | 0 | 0.00 | 105 | 0 | 0.00 | 30 | 0 | 0.00 | 27 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 162 | 143 | 0.88 | 105 | 94 | 0.90 | 30 | 29 | 0.97 | 27 | 20 | 0.74 | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 162 | 0 | 0.00 | 105 | 0 | 0.00 | 30 | 0 | 0.00 | 27 | 0 | 0.00 | | |
| 01145 | SELENIUM, DISSOLVED | Fresh Acute | 20. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | |
| | | Drinking Water | 50. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | |
| 31625 | FECAL COLIFORM, MF | Other-Hi Lim. | 200. | 42 | 30 | 0.71 | 27 | 16 | 0.59 | 8 | 7 | 0.88 | 7 | 7 | 1.00 | | |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 3. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39340 | GAMMA-BHC(LINDANE), WHOLE WATER | Fresh Acute | 2. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| | | Drinking Water | 0.2 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39350 | CHLORDANE(TECH MIX & METABS), WHOLE WATE | Fresh Acute | 2.4 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| | | Drinking Water | 2. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39360 | DDD IN WHOLE WATER SAMPLE | Fresh Acute | 0.6 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39365 | DDE IN WHOLE WATER SAMPLE | Fresh Acute | 1050. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39370 | DDT IN WHOLE WATER SAMPLE | Fresh Acute | 1.1 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 2.5 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39388 | ENDOSULFAN IN WHOLE WATER SAMPLE | Fresh Acute | 0.22 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 0.18 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| | | Drinking Water | 2. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE | Fresh Acute | 0.73 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| | | Drinking Water | 3. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE | Fresh Acute | 0.52 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| | | Drinking Water | 0.4 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE | Fresh Acute | 0.52 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| | | Drinking Water | 0.2 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE | Drinking Water | 40. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | |
| 39540 | PARATHION IN WHOLE WATER SAMPLE | Fresh Acute | 0.065 | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE | Drinking Water | 70. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0026

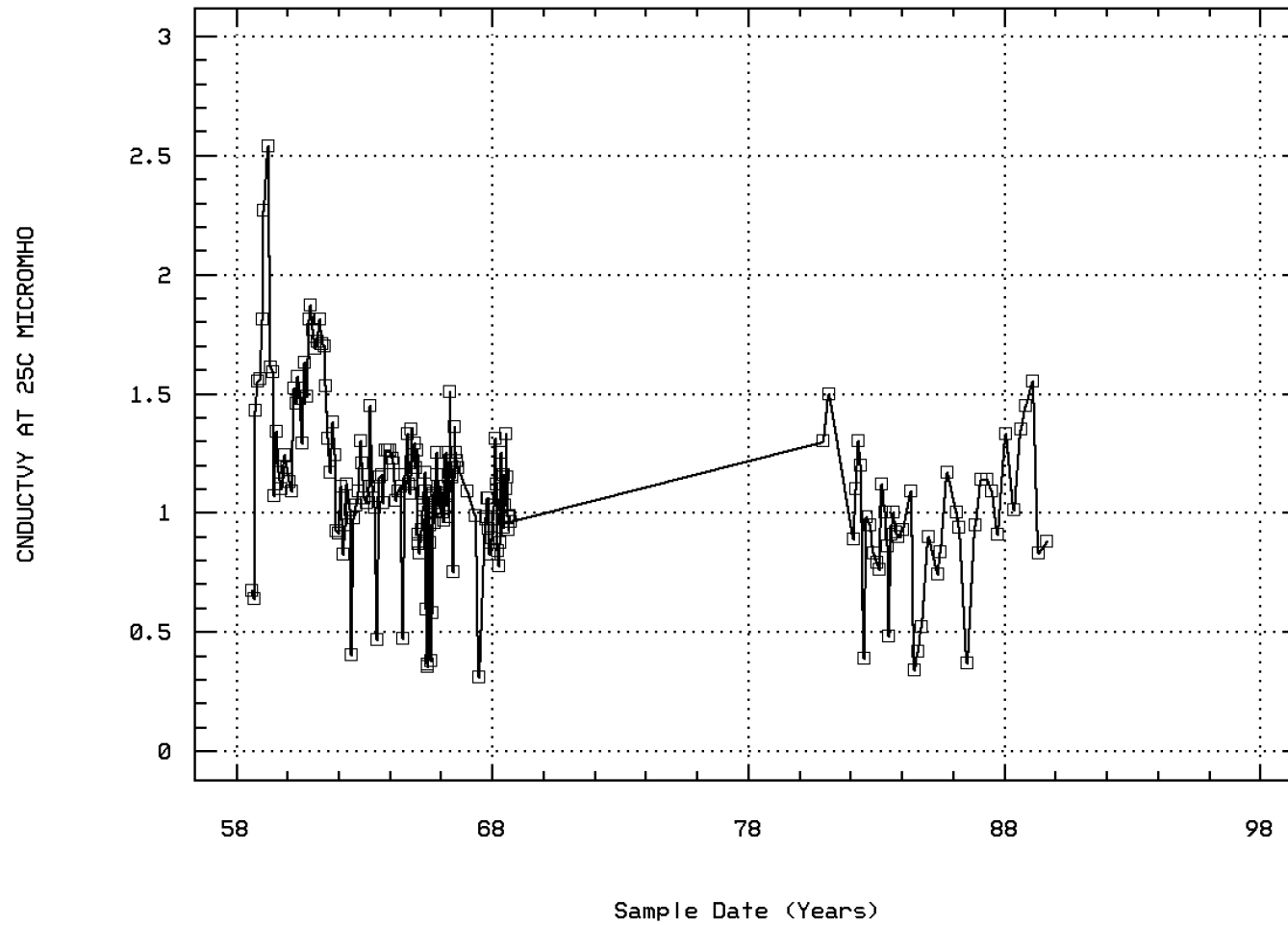
| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|----|------|---------------------|---|------|---------------------|---|------|---------------|--|--|
| 39760 SILVEX IN WHOLE WATER SAMPLE | Drinking Water | 50. | 9 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| 71850 NITRATE NITROGEN, TOTAL (AS NO3) | Drinking Water | 44. | 47 | 0 | 0.00 | 31 | 0 | 0.00 | 8 | 0 | 0.00 | 8 | 0 | 0.00 | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 148 | 0 | 0.00 | 95 | 0 | 0.00 | 28 | 0 | 0.00 | 25 | 0 | 0.00 | | | |
| 71856 NITRITE NITROGEN, DISSOLVED (AS NO2) | Drinking Water | 3.3 | 25 | 15 | 0.60 | 17 | 10 | 0.59 | 4 | 1 | 0.25 | 4 | 4 | 1.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BICA0026 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

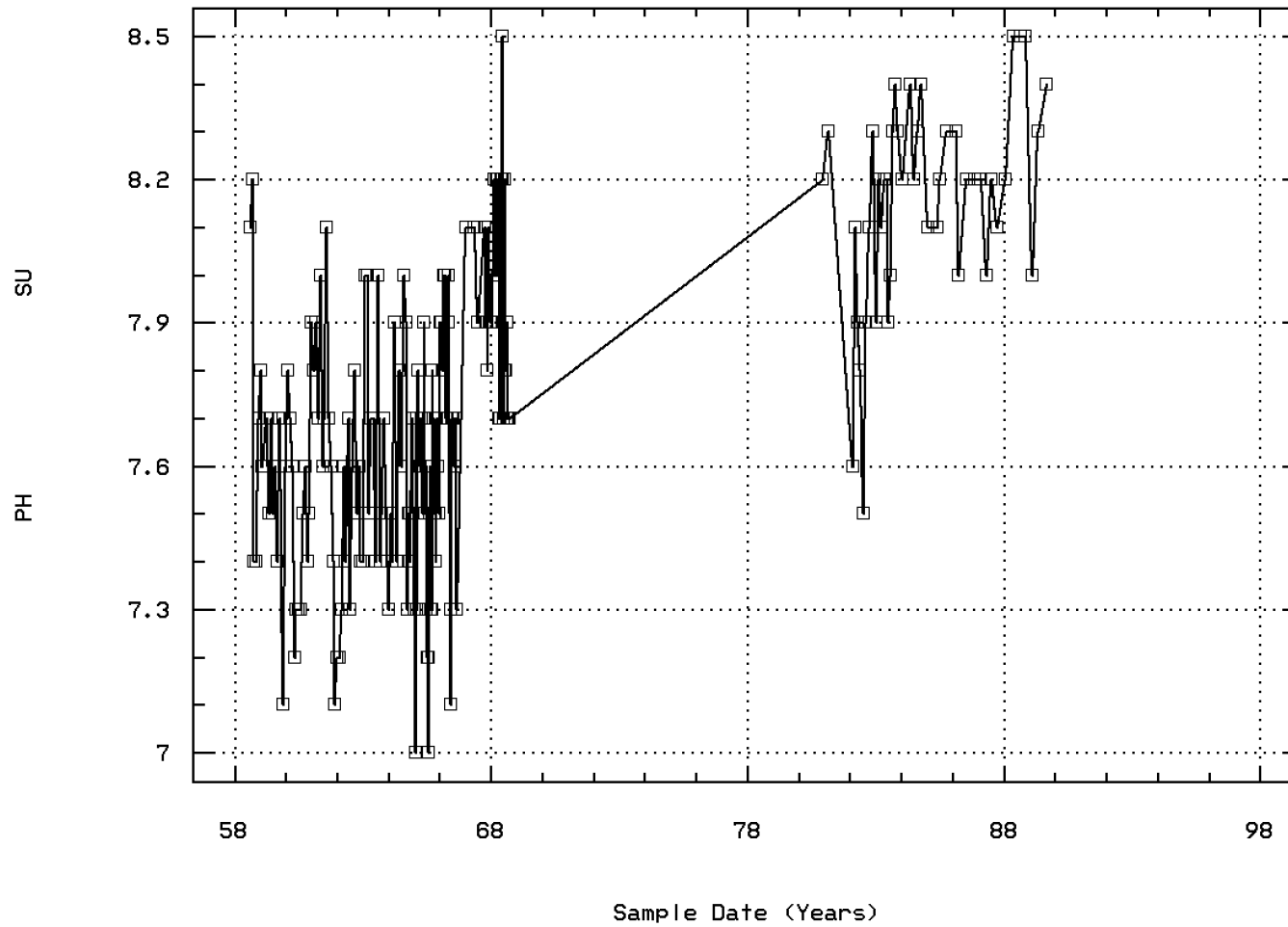
(X 1000)



SHOSHONE RIVER AT KANE, WY

Station: BICA0026 Parameter Code: 00400

PH (STANDARD UNITS)



SHOSHONE RIVER AT KANE, WY

Annual Analysis for 1958 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 5 | 792. | 1723.2 | 3300. | 610. | 1863457.2 | 1365.085 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 5 | 5. | 4.4 | 7. | 1. | 5.8 | 2.408 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 5 | 1430. | 1170.6 | 1560. | 640. | 223001.8 | 472.231 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 5 | 7.7 | 7.76 | 8.2 | 7.4 | 0.143 | 0.378 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 5 | 7.7 | 7.643 | 8.2 | 7.4 | 0.16 | 0.4 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 5 | 0.02 | 0.023 | 0.04 | 0.006 | 0. | 0.016 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 5 | 271. | 253.8 | 356. | 166. | 6659.2 | 81.604 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 5 | 442. | 378. | 538. | 194. | 28412.5 | 168.56 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 5 | 220. | 170. | 269. | 57. | 10847.5 | 104.151 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 5 | 108. | 94.8 | 138. | 50. | 1676.7 | 40.948 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 5 | 42. | 34.4 | 49. | 17. | 258.8 | 16.087 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 5 | 157. | 123.2 | 168. | 63. | 2985.7 | 54.642 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 5 | 3.1 | 2.7 | 3.3 | 2. | 0.415 | 0.644 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 5 | 4.6 | 4.32 | 5.6 | 2.8 | 1.852 | 1.361 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 5 | 12. | 11.4 | 16. | 6. | 22.8 | 4.775 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 5 | 530. | 410.6 | 572. | 188. | 40842.8 | 202.096 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 5 | 0.5 | 0.56 | 0.7 | 0.5 | 0.008 | 0.089 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 5 | 15. | 16. | 19. | 15. | 3. | 1.732 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 5 | 240. | 212. | 320. | 100. | 10370. | 101.833 | ** | ** | ** | ** |
| 01045 IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 5 | 10. | 8. | 20. | 0. | 70. | 8.367 | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 5 | 1060. | 856. | 1170. | 438. | 142642. | 377.68 | ** | ** | ** | ** |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 5 | 2450. | 2876. | 4030. | 1930. | 863580. | 929.29 | ** | ** | ** | ** |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 5 | 1.44 | 1.164 | 1.59 | 0.6 | 0.264 | 0.514 | ** | ** | ** | ** |
| 71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 5 | 3.3 | 3.72 | 5.3 | 1.9 | 1.832 | 1.354 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1959 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 4 | 992. | 1115.25 | 1520. | 957. | 73124.917 | 270.416 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 13 | 957. | 814.615 | 1520. | 150. | 219461.423 | 468.467 | 186.8 | 339.5 | 1170. | 1516. |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 10 | 5.5 | 7.1 | 18. | 3. | 20.989 | 4.581 | 3.1 | 4. | 8.25 | 17.4 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 10 | 1465. | 1574. | 2540. | 1070. | 253671.111 | 503.658 | 1073. | 1152.5 | 1925. | 2513. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 10 | 7.6 | 7.56 | 7.8 | 7.1 | 0.04 | 0.201 | 7.13 | 7.475 | 7.7 | 7.79 |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 10 | 7.6 | 7.511 | 7.8 | 7.1 | 0.043 | 0.208 | 7.13 | 7.475 | 7.7 | 7.79 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 10 | 0.025 | 0.031 | 0.079 | 0.016 | 0. | 0.019 | 0.016 | 0.02 | 0.034 | 0.075 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 10 | 267. | 290.7 | 450. | 209. | 6588.233 | 81.168 | 211. | 231.25 | 349. | 446.2 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 10 | 440. | 495.2 | 794. | 310. | 29937.733 | 173.025 | 312.9 | 350.25 | 692.5 | 785.8 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 10 | 227. | 256.9 | 456. | 139. | 13291.656 | 115.289 | 140.2 | 160.75 | 348.5 | 454.7 |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 10 | 106. | 120.2 | 185. | 81. | 1435.511 | 37.888 | 81.4 | 88.75 | 158.5 | 184. |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 10 | 40.5 | 47.5 | 81. | 26. | 400.278 | 20.007 | 26.5 | 31. | 65.75 | 80.9 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 10 | 164.5 | 174.8 | 288. | 117. | 3702.4 | 60.847 | 117.3 | 125.25 | 207. | 286.2 |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 10 | 3.2 | 3.4 | 4.7 | 2.7 | 0.418 | 0.646 | 2.71 | 2.95 | 3.825 | 4.65 |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 10 | 4.3 | 5.28 | 8.7 | 3.7 | 3.891 | 1.972 | 3.7 | 3.7 | 7.55 | 8.63 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 10 | 14. | 17.1 | 32. | 9. | 71.211 | 8.439 | 9.1 | 10. | 22.75 | 31.9 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 10 | 560.5 | 596.2 | 990. | 369. | 46861.511 | 216.475 | 371.2 | 422.5 | 723.5 | 983. |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 10 | 0.65 | 0.72 | 1.1 | 0.5 | 0.042 | 0.204 | 0.5 | 0.575 | 0.85 | 1.09 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 10 | 16. | 16.4 | 22. | 13. | 5.822 | 2.413 | 13.2 | 15. | 17.25 | 21.6 |
| 01020 BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 10 | 275. | 313. | 500. | 170. | 13534.444 | 116.338 | 173. | 207.5 | 435. | 495. |
| 01045 IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 10 | 10. | 7. | 20. | 0. | 45.556 | 6.749 | 0. | 0. | 10. | 19. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 10 | 1094. | 1177.3 | 1840. | 760. | 162369.344 | 402.951 | 762.2 | 833. | 1520. | 1838. |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 10 | 1915. | 1885.701 | 3190. | 737. | 725615.021 | 851.83 | 772.3 | 1112.5 | 2572.5 | 3144. |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 10 | 1.485 | 1.602 | 2.51 | 1.03 | 0.303 | 0.551 | 1.033 | 1.135 | 2.068 | 2.507 |
| 71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 10 | 5.25 | 4.62 | 8.6 | 1. | 6.431 | 2.536 | 1.06 | 1.675 | 6.075 | 8.49 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 1 | 4.1 | 4.1 | 4.1 | 4.1 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1959 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 71885 IRON (UG/L AS FE) | 11/30/59-07/03/67 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1960 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|----------|---------|---------|---------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 27 | 680. | 735.852 | 1720. | 328. | 123059.9 | 350.799 | 333.4 | 470. | 900. | 1240. |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 24 | 673. | 721.167 | 1720. | 328. | 125039.536 | 353.609 | 332.5 | 475. | 871.5 | 1300. |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 12 | 7. | 14.667 | 90. | 4. | 578.242 | 24.047 | 4.3 | 6. | 10.25 | 68.7 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 12 | 1485. | 1460.833 | 1870. | 1090. | 62190.152 | 249.38 | 1102. | 1215. | 1615. | 1852. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.5 | 7.483 | 7.8 | 7.2 | 0.034 | 0.185 | 7.23 | 7.3 | 7.6 | 7.77 |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.5 | 7.448 | 7.8 | 7.2 | 0.036 | 0.189 | 7.23 | 7.3 | 7.6 | 7.77 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 12 | 0.032 | 0.036 | 0.063 | 0.016 | 0. | 0.015 | 0.017 | 0.025 | 0.05 | 0.059 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 12 | 272.5 | 278.917 | 362. | 237. | 1337.356 | 36.57 | 240.6 | 254.25 | 288. | 354.5 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 446.5 | 466.25 | 623. | 385. | 6068.568 | 77.901 | 386.5 | 397. | 496.5 | 616.7 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 241. | 237.583 | 326. | 159. | 3337.72 | 57.773 | 159.3 | 181.75 | 274. | 326. |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 12 | 110. | 118.667 | 184. | 102. | 548.061 | 23.411 | 102.3 | 104.5 | 123.5 | 171.1 |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 12 | 40.5 | 41.333 | 61. | 32. | 70.788 | 8.414 | 32. | 33. | 44.75 | 57.7 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 12 | 167. | 160.083 | 204. | 101. | 1260.083 | 35.498 | 103.4 | 123. | 191.25 | 202.8 |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 12 | 3.4 | 3.208 | 3.8 | 2.2 | 0.288 | 0.537 | 2.26 | 2.675 | 3.575 | 3.77 |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 12 | 4.45 | 4.667 | 7.1 | 3.3 | 1.193 | 1.092 | 3.42 | 3.9 | 5.475 | 6.77 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 12 | 15.5 | 15.917 | 22. | 12. | 10.629 | 3.26 | 12.3 | 13. | 19.25 | 21.4 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 12 | 570.5 | 547.167 | 727. | 345. | 15967.606 | 126.363 | 355.2 | 412.75 | 648.5 | 718.3 |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 12 | 0.7 | 0.658 | 0.8 | 0.4 | 0.015 | 0.124 | 0.43 | 0.6 | 0.775 | 0.8 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 12 | 15. | 15.333 | 19. | 11. | 4.242 | 2.06 | 11.9 | 14. | 17. | 18.4 |
| 01020 BORON, DISSOLVED (MG/L AS B) | 08/20/58-09/16/68 | 12 | 255. | 264.167 | 380. | 200. | 3062.879 | 55.343 | 203. | 222.5 | 290. | 371. |
| 01045 IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 11 | 10. | 10.909 | 20. | 0. | 69.091 | 8.312 | 0. | 0. | 20. | 20. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 12 | 1115. | 1089.25 | 1420. | 762. | 44480.75 | 210.905 | 774.9 | 883. | 1225. | 1408. |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 12 | 1780.01 | 1891.176 | 2780.01 | 974. | 283341.637 | 532.298 | 1119.803 | 1512.51 | 2297.51 | 2729.01 |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 12 | 1.52 | 1.482 | 1.93 | 1.04 | 0.082 | 0.287 | 1.055 | 1.203 | 1.668 | 1.915 |
| 71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 11 | 4.4 | 3.918 | 6.7 | 0.1 | 3.136 | 1.771 | 0.48 | 3.2 | 5.2 | 6.44 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 12 | 4. | 3.85 | 6.7 | 0.1 | 2.906 | 1.705 | 0.67 | 3.125 | 5.025 | 6.31 |
| 71885 IRON (UG/L AS FE) | 11/30/59-07/03/67 | 12 | 10. | 10. | 20. | 0. | 72.727 | 8.528 | 0. | 0. | 20. | 20. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1961 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 16 | 697. | 825.375 | 2780. | 241. | 422853.05 | 650.272 | 259.9 | 347.25 | 1142.5 | 1856. |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 13 | 840. | 894.308 | 2780. | 241. | 494239.731 | 703.022 | 251.8 | 337.5 | 1225. | 2252. |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 11 | 4. | 5.273 | 9. | 2. | 5.418 | 2.328 | 2.2 | 4. | 8. | 8.8 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 12 | 1610. | 1496. | 1810. | 922. | 81762.909 | 285.942 | 996.4 | 1257.5 | 1717.5 | 1798. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.7 | 7.708 | 8.1 | 7.1 | 0.074 | 0.271 | 7.19 | 7.6 | 7.9 | 8.07 |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.7 | 7.619 | 8.1 | 7.1 | 0.082 | 0.287 | 7.19 | 7.6 | 7.9 | 8.07 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 12 | 0.02 | 0.024 | 0.079 | 0.008 | 0. | 0.019 | 0.009 | 0.013 | 0.025 | 0.068 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 12 | 266.5 | 277.25 | 383. | 221. | 2147.477 | 46.341 | 226.1 | 240.25 | 298.75 | 369.5 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 490.5 | 479.5 | 623. | 308. | 9480.273 | 97.367 | 328.1 | 399.75 | 561.75 | 612.5 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 276. | 252.25 | 344. | 127. | 4677.841 | 68.395 | 142.3 | 190.75 | 308. | 333.5 |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 12 | 123.5 | 122.917 | 178. | 81. | 766.447 | 27.685 | 85.5 | 100.75 | 139.5 | 169.6 |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 12 | 43.5 | 42.167 | 62. | 26. | 80.515 | 8.973 | 28.1 | 36.25 | 46.25 | 58.1 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 12 | 167. | 163.083 | 215. | 88. | 1250.265 | 35.359 | 100.3 | 136.5 | 194.5 | 210.5 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1961 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|---------|---------|---------|---------|
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 12 | 3.25 | 3.225 | 3.8 | 2.2 | 0.22 | 0.469 | 2.41 | 2.925 | 3.7 | 3.8 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 12 | 4.75 | 5.142 | 7.3 | 3. | 2.706 | 1.645 | 3. | 3.85 | 7.1 | 7.3 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 12 | 15.5 | 16.917 | 28. | 10. | 32.083 | 5.664 | 10.3 | 12. | 21.5 | 26.5 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 12 | 598.5 | 564.417 | 745. | 284. | 18354.265 | 135.478 | 329.9 | 455.25 | 670.75 | 737.5 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 12 | 0.6 | 0.65 | 0.9 | 0.4 | 0.015 | 0.124 | 0.46 | 0.6 | 0.7 | 0.87 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 12 | 15.5 | 15.583 | 19. | 10. | 4.992 | 2.234 | 11.2 | 15. | 17. | 18.4 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 12 | 325. | 311.667 | 410. | 150. | 4887.879 | 69.913 | 171. | 285. | 350. | 401. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 12 | 10. | 7.5 | 20. | 0. | 56.818 | 7.538 | 0. | 0. | 10. | 20. |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 12 | 1190. | 1119.25 | 1420. | 642. | 55970.75 | 236.581 | 714. | 914.75 | 1317.5 | 1393. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 12 | 1745.01 | 1880.426 | 3550.01 | 865. | 720440.293 | 848.788 | 914.503 | 1212.51 | 2647.51 | 3361.01 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 12 | 1.615 | 1.523 | 1.93 | 0.87 | 0.104 | 0.322 | 0.969 | 1.248 | 1.795 | 1.894 |
| 71850 | NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 12 | 4.9 | 4.75 | 6.4 | 3.1 | 1.195 | 1.093 | 3.16 | 3.7 | 5.725 | 6.31 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 12 | 4.9 | 4.75 | 6.4 | 3.1 | 1.195 | 1.093 | 3.16 | 3.7 | 5.725 | 6.31 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 12 | 10. | 7.5 | 20. | 0. | 56.818 | 7.538 | 0. | 0. | 10. | 20. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1962 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|---------|---------|
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 12 | 1165. | 1494.667 | 4520. | 896. | 995243.152 | 997.619 | 909.2 | 970. | 1582.5 | 3725. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 8 | 1340. | 1712. | 4520. | 896. | 1397523.429 | 1182.169 | ** | ** | ** | ** |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 12 | 5. | 4.917 | 8. | 2. | 3.174 | 1.782 | 2. | 4. | 6. | 7.7 |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 12 | 1020. | 995. | 1300. | 402. | 51598.727 | 227.154 | 529.2 | 923.75 | 1117.5 | 1273. |
| 00400 | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.45 | 7.467 | 7.8 | 7.2 | 0.039 | 0.197 | 7.2 | 7.3 | 7.6 | 7.77 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.447 | 7.427 | 7.8 | 7.2 | 0.04 | 0.201 | 7.2 | 7.3 | 7.6 | 7.77 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 12 | 0.036 | 0.037 | 0.063 | 0.016 | 0. | 0.016 | 0.017 | 0.025 | 0.05 | 0.063 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 12 | 219.5 | 219.333 | 275. | 119. | 1707.697 | 41.324 | 141.5 | 202. | 250.75 | 273.8 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 315. | 317.583 | 424. | 128. | 5928.265 | 76.995 | 164.9 | 299.75 | 370.25 | 418.9 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 143.5 | 137.583 | 202. | 30. | 2039.902 | 45.165 | 48.6 | 121.25 | 171.75 | 195.7 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 12 | 80. | 79.75 | 107. | 35. | 368.205 | 19.189 | 44.3 | 69. | 93.75 | 106.1 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 12 | 28. | 28.9 | 45. | 9.8 | 78.411 | 8.855 | 13.16 | 25.25 | 35.25 | 42.9 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 12 | 107. | 101.167 | 139. | 34. | 723.061 | 26.89 | 47.8 | 85.75 | 119. | 133.9 |
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 12 | 2.6 | 2.45 | 2.9 | 1.3 | 0.192 | 0.438 | 1.54 | 2.225 | 2.775 | 2.87 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 12 | 3.55 | 3.467 | 4.5 | 1.4 | 0.633 | 0.796 | 1.88 | 3.15 | 3.875 | 4.47 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 12 | 10. | 10. | 15. | 2. | 10.182 | 3.191 | 3.8 | 9. | 12. | 14.4 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 12 | 345. | 325.083 | 465. | 93. | 9089.174 | 95.337 | 136.2 | 278.25 | 388.75 | 446.7 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 12 | 0.5 | 0.483 | 0.7 | 0.2 | 0.016 | 0.127 | 0.26 | 0.4 | 0.575 | 0.67 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 12 | 17. | 16.5 | 19. | 14. | 1.909 | 1.382 | 14.3 | 15.25 | 17. | 18.7 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 12 | 170. | 169.167 | 230. | 50. | 2699.242 | 51.954 | 68. | 145. | 207.5 | 230. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 9 | 10. | 15.556 | 90. | 0. | 802.778 | 28.333 | 0. | 0. | 10. | 90. |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 08/20/58-09/16/68 | 12 | 722. | 704.5 | 959. | 264. | 31256.455 | 176.795 | 348. | 640. | 811.5 | 931.1 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 12 | 2490.01 | 2490.843 | 3520.01 | 1610.01 | 366899.242 | 605.722 | 1628.01 | 2017.51 | 3087.51 | 3430.01 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 12 | 0.98 | 0.958 | 1.3 | 0.36 | 0.057 | 0.24 | 0.474 | 0.87 | 1.1 | 1.264 |
| 71850 | NITRATE NITROGEN,TOTAL (MG/L AS NO3) | 08/20/58-09/09/62 | 9 | 3.3 | 3.622 | 6.2 | 1.2 | 2.987 | 1.728 | 1.2 | 2.3 | 5.35 | 6.2 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 12 | 3.35 | 3.65 | 6.2 | 1.2 | 2.35 | 1.533 | 1.32 | 2.7 | 4.675 | 6.11 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 12 | 10. | 13.333 | 90. | 0. | 606.061 | 24.618 | 0. | 0. | 10. | 66. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1963 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|---------|---------|---------|---------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 12 | 842. | 1166.833 | 4130. | 490. | 935761.061 | 967.347 | 524.2 | 776. | 1272.5 | 3293. |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 12 | 5.5 | 7.5 | 20. | 4. | 22.455 | 4.739 | 4. | 4.25 | 8.75 | 17.9 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 12 | 1110. | 1093.833 | 1450. | 466. | 54245.424 | 232.906 | 632.2 | 1040. | 1235. | 1393. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.6 | 7.65 | 8. | 7.4 | 0.057 | 0.239 | 7.4 | 7.425 | 7.925 | 8. |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 12 | 7.589 | 7.596 | 8. | 7.4 | 0.06 | 0.246 | 7.4 | 7.425 | 7.925 | 8. |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 12 | 0.026 | 0.025 | 0.04 | 0.01 | 0. | 0.012 | 0.01 | 0.012 | 0.038 | 0.04 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 12 | 236.5 | 243.083 | 307. | 126. | 2194.629 | 46.847 | 153.6 | 229.25 | 279. | 303.7 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 352. | 352.833 | 478. | 145. | 6684.152 | 81.757 | 194.2 | 326.5 | 410.5 | 463. |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 12 | 161.5 | 161.75 | 245. | 42. | 2652.386 | 51.501 | 68.4 | 139.75 | 180.75 | 242.3 |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 12 | 89. | 89.917 | 118. | 40. | 393.538 | 19.838 | 50.2 | 86. | 103.5 | 115.3 |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 12 | 31. | 31.25 | 45. | 11. | 67.841 | 8.237 | 15.8 | 27.75 | 36.75 | 43.2 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 12 | 113.5 | 111.25 | 152. | 39. | 746.932 | 27.33 | 57. | 102.25 | 126.25 | 145.7 |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 12 | 2.65 | 2.55 | 3. | 1.4 | 0.19 | 0.436 | 1.64 | 2.4 | 2.875 | 2.97 |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 12 | 3.9 | 3.808 | 5.1 | 1.8 | 0.868 | 0.932 | 2.1 | 3.25 | 4.475 | 5.01 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 12 | 10. | 10.083 | 16. | 3. | 8.811 | 2.968 | 4.5 | 9.25 | 11. | 14.8 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 12 | 373. | 366.583 | 538. | 123. | 9234.083 | 96.094 | 186.3 | 335.25 | 410.75 | 505. |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 12 | 0.5 | 0.525 | 0.6 | 0.3 | 0.007 | 0.087 | 0.36 | 0.5 | 0.6 | 0.6 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 12 | 17. | 17. | 18. | 16. | 0.727 | 0.853 | 16. | 16. | 18. | 18. |
| 01020 BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 12 | 185. | 200. | 340. | 70. | 4036.364 | 63.532 | 100. | 180. | 232.5 | 316. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 12 | 798.5 | 783.25 | 1040. | 318. | 30911.295 | 175.816 | 438.9 | 724. | 896.5 | 1008.8 |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 12 | 1950.01 | 2090.01 | 3550.01 | 1380.01 | 424000. | 651.153 | 1413.01 | 1635.01 | 2500.01 | 3373.01 |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 12 | 1.09 | 1.064 | 1.41 | 0.43 | 0.057 | 0.239 | 0.595 | 0.982 | 1.215 | 1.368 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 12 | 3.95 | 3.592 | 5.4 | 1.4 | 1.641 | 1.281 | 1.55 | 2.625 | 4.475 | 5.31 |
| 71885 IRON (UG/L AS FE) | 11/30/59-07/03/67 | 12 | 10. | 35.833 | 140. | 0. | 2462.879 | 49.627 | 0. | 0. | 87.5 | 125. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1964 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|---------|----------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 18 | 1082.5 | 1531.056 | 6360. | 475. | 2688445.467 | 1639.648 | 587.5 | 772.75 | 1312.5 | 5635.5 |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 15 | 4. | 6.733 | 35. | 1. | 68.352 | 8.268 | 1.6 | 3. | 6. | 21.2 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 15 | 1160. | 1142.133 | 1350. | 472. | 42782.552 | 206.839 | 818.8 | 1090. | 1260. | 1338. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 15 | 7.5 | 7.58 | 8. | 7.3 | 0.052 | 0.227 | 7.3 | 7.4 | 7.8 | 7.94 |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 15 | 7.5 | 7.53 | 8. | 7.3 | 0.054 | 0.233 | 7.3 | 7.4 | 7.8 | 7.94 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 15 | 0.032 | 0.029 | 0.05 | 0.01 | 0. | 0.013 | 0.012 | 0.016 | 0.04 | 0.05 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 15 | 235. | 255.933 | 316. | 154. | 2277.495 | 47.723 | 190. | 226. | 310. | 314.8 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 15 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 15 | 360. | 369.867 | 454. | 159. | 5879.695 | 76.679 | 254.4 | 332. | 436. | 451.6 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 15 | 166. | 159.933 | 213. | 33. | 1665.352 | 40.809 | 98.4 | 147. | 182. | 201. |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 15 | 91. | 91. | 121. | 46. | 598.143 | 24.457 | 49.6 | 84. | 112. | 119.8 |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 15 | 35. | 34.667 | 51. | 11. | 79.524 | 8.918 | 21.2 | 32. | 40. | 46.8 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 15 | 118. | 113.267 | 137. | 38. | 496.781 | 22.289 | 76.4 | 112. | 122. | 131. |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 15 | 2.6 | 2.547 | 3. | 1.3 | 0.158 | 0.398 | 1.9 | 2.4 | 2.8 | 2.94 |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 15 | 4.2 | 4.327 | 5.9 | 2.5 | 0.795 | 0.892 | 2.86 | 3.8 | 5.1 | 5.48 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 15 | 12. | 12.067 | 18. | 3. | 10.495 | 3.24 | 7.2 | 11. | 14. | 16.2 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 15 | 382. | 366.933 | 465. | 108. | 6238.21 | 78.982 | 240.6 | 356. | 401. | 445.2 |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 15 | 0.6 | 0.547 | 0.7 | 0.3 | 0.01 | 0.099 | 0.36 | 0.5 | 0.6 | 0.64 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 15 | 16. | 16. | 19. | 13. | 2.857 | 1.69 | 13.6 | 15. | 17. | 18.4 |
| 01020 BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 15 | 190. | 201.333 | 340. | 60. | 3712.381 | 60.929 | 108. | 180. | 240. | 292. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 15 | 823. | 803. | 978. | 314. | 23485.857 | 153.251 | 567.2 | 763. | 887. | 954.6 |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 15 | 2060.01 | 2254.009 | 4710. | 1090.01 | 735322.206 | 857.509 | 1288.01 | 1810.01 | 2650.01 | 3738.006 |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 15 | 1.12 | 1.094 | 1.33 | 0.43 | 0.044 | 0.209 | 0.772 | 1.04 | 1.21 | 1.3 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 15 | 3.1 | 2.973 | 6.5 | 0.2 | 3.215 | 1.793 | 0.26 | 1.7 | 3.9 | 5.54 |
| 71885 IRON (UG/L AS FE) | 11/30/59-07/03/67 | 15 | 30. | 52.667 | 130. | 0. | 2420.952 | 49.203 | 0. | 10. | 100. | 130. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1965 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|---------|-------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 29 | 1116. | 1915.483 | 8733. | 664. | 4040090.687 | 2009.998 | 699. | 911.5 | 1558.5 | 5722. |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 29 | 5. | 4.966 | 10. | 1. | 5.963 | 2.442 | 2. | 3. | 6.5 | 9. |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 29 | 1020. | 940.759 | 1260. | 355. | 64446.19 | 253.863 | 377. | 872. | 1100. | 1190. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 29 | 7.5 | 7.493 | 7.9 | 7. | 0.053 | 0.23 | 7.2 | 7.3 | 7.7 | 7.8 |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 29 | 7.5 | 7.431 | 7.9 | 7. | 0.057 | 0.238 | 7.2 | 7.3 | 7.7 | 7.8 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 29 | 0.032 | 0.037 | 0.1 | 0.013 | 0. | 0.022 | 0.016 | 0.02 | 0.05 | 0.063 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 29 | 225. | 221.138 | 306. | 113. | 2486.98 | 49.87 | 119. | 215. | 258. | 282. |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 29 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 29 | 319. | 304.724 | 451. | 117. | 7633.564 | 87.37 | 121. | 286. | 360. | 402. |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 29 | 137. | 123.241 | 202. | 19. | 2295.69 | 47.913 | 28. | 106.5 | 152. | 175. |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 29 | 80. | 76.552 | 119. | 31. | 489.328 | 22.121 | 31. | 72. | 90.5 | 99. |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 29 | 29. | 27.766 | 40. | 9.6 | 71.697 | 8.467 | 11. | 24.5 | 34.5 | 37. |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 29 | 99. | 92.345 | 132. | 27. | 855.234 | 29.244 | 31. | 79. | 113.5 | 123. |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 29 | 2.4 | 2.269 | 3. | 1.1 | 0.265 | 0.515 | 1.2 | 1.95 | 2.6 | 2.9 |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 29 | 3.6 | 3.679 | 6.7 | 1.3 | 1.263 | 1.124 | 1.8 | 3.35 | 4.2 | 5.3 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 29 | 10. | 9.414 | 19. | 3. | 11.323 | 3.365 | 4. | 7. | 11. | 12. |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 29 | 331. | 295.31 | 424. | 75. | 9508.079 | 97.509 | 90. | 254.5 | 353.5 | 408. |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 29 | 0.5 | 0.49 | 0.7 | 0.3 | 0.009 | 0.094 | 0.4 | 0.4 | 0.5 | 0.6 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 29 | 16. | 15.828 | 17. | 14. | 0.862 | 0.928 | 14. | 15. | 16.5 | 17. |
| 01020 BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 29 | 170. | 156.897 | 270. | 30. | 3479.31 | 58.986 | 40. | 125. | 195. | 220. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 29 | 713. | 657.483 | 915. | 226. | 36580.116 | 191.259 | 242. | 598. | 778. | 842. |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 29 | 2040.01 | 2724.15 | 10590.1 | 1050.01 | 3785805.284 | 1945.715 | 1580.01 | 1695.01 | 2620.01 | 5470. |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 29 | 0.97 | 0.895 | 1.24 | 0.31 | 0.067 | 0.259 | 0.33 | 0.815 | 1.06 | 1.15 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 29 | 2.4 | 2.338 | 3.8 | 0.2 | 1.229 | 1.109 | 0.4 | 1.5 | 3.35 | 3.7 |
| 71885 IRON (UG/L AS FE) | 11/30/59-07/03/67 | 21 | 10. | 6.667 | 10. | 0. | 23.333 | 4.83 | 0. | 0. | 10. | 10. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1966 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|---------|---------|---------|---------|
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 23 | 672. | 762.957 | 1750. | 359. | 80755.407 | 284.175 | 528. | 602. | 890. | 1104.8 |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 6 | 2. | 2.333 | 5. | 1. | 2.267 | 1.506 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 23 | 1150. | 1127.261 | 1510. | 751. | 22907.474 | 151.352 | 971.6 | 1030. | 1220. | 1316. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 23 | 7.8 | 7.752 | 8. | 7.1 | 0.059 | 0.243 | 7.3 | 7.7 | 7.9 | 8. |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 23 | 7.8 | 7.672 | 8. | 7.1 | 0.066 | 0.256 | 7.3 | 7.7 | 7.9 | 8. |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 23 | 0.016 | 0.021 | 0.079 | 0.01 | 0. | 0.017 | 0.01 | 0.013 | 0.02 | 0.05 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 23 | 242. | 242.348 | 291. | 165. | 881.601 | 29.692 | 206.8 | 224. | 270. | 280.8 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 23 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 23 | 361. | 365.043 | 462. | 226. | 2146.862 | 46.334 | 315.2 | 350. | 379. | 437.2 |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 23 | 165. | 166.174 | 263. | 91. | 1061.514 | 32.581 | 133.4 | 150. | 177. | 212.6 |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 23 | 93. | 88.87 | 110. | 44. | 222.846 | 14.928 | 68.6 | 82. | 97. | 104.2 |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 23 | 34. | 34.913 | 47. | 24. | 30.356 | 5.51 | 28.4 | 32. | 38. | 44.4 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 23 | 113. | 117. | 173. | 78. | 872.909 | 29.545 | 80. | 91. | 141. | 161.4 |
| 00931 SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 23 | 2.5 | 2.657 | 3.5 | 1.8 | 0.37 | 0.608 | 1.9 | 2.1 | 3.2 | 3.5 |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 23 | 4.5 | 4.23 | 6. | 1. | 1.301 | 1.141 | 2.4 | 3.6 | 5. | 5.38 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 23 | 17. | 15.957 | 24. | 10. | 12.407 | 3.522 | 10.4 | 13. | 18. | 20. |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 23 | 394. | 384.348 | 580. | 230. | 6497.328 | 80.606 | 296.8 | 321. | 437. | 491.2 |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 23 | 0.7 | 0.739 | 1.2 | 0.5 | 0.02 | 0.141 | 0.6 | 0.6 | 0.8 | 0.86 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 23 | 16. | 16. | 20. | 13. | 3.455 | 1.859 | 14. | 15. | 17. | 19.6 |
| 01020 BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 23 | 180. | 181.304 | 240. | 80. | 1920.949 | 43.829 | 120. | 150. | 220. | 230. |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 23 | 808. | 797.739 | 1070. | 506. | 15281.292 | 123.618 | 661.2 | 718. | 878. | 966. |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 23 | 1470.01 | 1607.401 | 2720.01 | 1040.01 | 246247.431 | 496.233 | 1084.01 | 1170.01 | 2100.01 | 2396.01 |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 23 | 1.1 | 1.084 | 1.46 | 0.69 | 0.028 | 0.168 | 0.898 | 0.98 | 1.19 | 1.314 |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 23 | 2.8 | 3.317 | 6.6 | 1.8 | 1.674 | 1.294 | 2. | 2.3 | 4.2 | 5.14 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1967 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|---------|---------|---------|--------|
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 9 | 1060. | 2101. | 10400. | 700. | 9714666.5 | 3116.836 | 700. | 994.5 | 1265. | 10400. |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 9 | 981. | 913.556 | 1090. | 312. | 57187.778 | 239.14 | 312. | 880. | 1060. | 1090. |
| 00400 | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 9 | 8.1 | 8. | 8.1 | 7.8 | 0.015 | 0.122 | 7.8 | 7.9 | 8.1 | 8.1 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 9 | 8.1 | 7.984 | 8.1 | 7.8 | 0.015 | 0.124 | 7.8 | 7.9 | 8.1 | 8.1 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 9 | 0.008 | 0.01 | 0.016 | 0.008 | 0. | 0.003 | 0.008 | 0.008 | 0.013 | 0.016 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 9 | 224. | 220.667 | 292. | 122. | 1878.75 | 43.345 | 122. | 220. | 229. | 292. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 9 | 308. | 301.889 | 408. | 117. | 6068.111 | 77.898 | 117. | 293.5 | 339. | 408. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 9 | 127. | 120.889 | 168. | 17. | 1897.361 | 43.559 | 17. | 110. | 151. | 168. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 9 | 83. | 79.889 | 101. | 37. | 304.611 | 17.453 | 37. | 79. | 86.5 | 101. |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 9 | 25. | 25. | 38. | 6. | 80. | 8.944 | 6. | 21.5 | 31. | 38. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 9 | 100. | 87.111 | 107. | 23. | 698.111 | 26.422 | 23. | 78.5 | 102. | 107. |
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 9 | 2.4 | 2.144 | 2.7 | 0.9 | 0.298 | 0.546 | 0.9 | 1.9 | 2.5 | 2.7 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 9 | 3.7 | 3.578 | 4.8 | 1.5 | 0.782 | 0.884 | 1.5 | 3.45 | 3.95 | 4.8 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 9 | 9. | 8.222 | 12. | 2. | 6.944 | 2.635 | 2. | 8. | 9. | 12. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 9 | 323. | 290. | 357. | 59. | 8660.25 | 93.06 | 59. | 268.5 | 346.5 | 357. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 9 | 0.6 | 0.644 | 0.8 | 0.5 | 0.018 | 0.133 | 0.5 | 0.5 | 0.8 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 9 | 15. | 14.556 | 16. | 12. | 1.278 | 1.13 | 12. | 14. | 15. | 16. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 9 | 150. | 141.111 | 190. | 30. | 2086.111 | 45.674 | 30. | 130. | 165. | 190. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 1 | 60. | 60. | 60. | 60. | 0. | 0. | ** | ** | ** | ** |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 9 | 684. | 628.444 | 774. | 196. | 30420.778 | 174.416 | 196. | 588. | 728. | 774. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 9 | 2080.01 | 2344.453 | 5500. | 1460.01 | 1503419.889 | 1226.14 | 1460.01 | 1665.01 | 2340.01 | 5500. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 9 | 0.93 | 0.854 | 1.05 | 0.27 | 0.056 | 0.236 | 0.27 | 0.8 | 0.99 | 1.05 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 9 | 2.2 | 1.967 | 4.4 | 0.2 | 1.74 | 1.319 | 0.2 | 0.65 | 2.6 | 4.4 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 3 | 80. | 90. | 180. | 10. | 7300. | 85.44 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1968 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|---------|---------|---------|---------|
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 23 | 868. | 995.652 | 1840. | 549. | 124916.964 | 353.436 | 590.8 | 739. | 1200. | 1644. |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 23 | 1030. | 1038.087 | 1330. | 774. | 24897.356 | 157.789 | 802. | 928. | 1160. | 1286. |
| 00400 | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 23 | 7.9 | 7.952 | 8.5 | 7.7 | 0.054 | 0.231 | 7.7 | 7.7 | 8.2 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 23 | 7.9 | 7.899 | 8.5 | 7.7 | 0.056 | 0.238 | 7.7 | 7.7 | 8.2 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 23 | 0.013 | 0.013 | 0.02 | 0.003 | 0. | 0.006 | 0.006 | 0.006 | 0.02 | 0.02 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 23 | 215. | 221.957 | 270. | 187. | 470.407 | 21.689 | 197.2 | 209. | 234. | 264.2 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 23 | 0. | 0.304 | 7. | 0. | 2.13 | 1.46 | 0. | 0. | 0. | 0. |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 23 | 326. | 324.043 | 397. | 264. | 1790.407 | 42.313 | 270.4 | 280. | 360. | 383.2 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 23 | 144. | 141.478 | 211. | 91. | 1222.806 | 34.969 | 97. | 109. | 165. | 199.6 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 23 | 86. | 86.957 | 103. | 73. | 76.316 | 8.736 | 73.4 | 82. | 92. | 100.6 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 23 | 26. | 26.096 | 41. | 6.2 | 59.538 | 7.716 | 15. | 22. | 31. | 35.8 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 23 | 109. | 109.565 | 160. | 69. | 639.166 | 25.282 | 75.2 | 90. | 127. | 146.8 |
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 23 | 2.7 | 2.63 | 3.6 | 1.8 | 0.243 | 0.493 | 1.94 | 2.1 | 3. | 3.3 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 23 | 3.6 | 3.604 | 5.4 | 2. | 0.754 | 0.868 | 2.22 | 3.1 | 4.4 | 4.62 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 23 | 11. | 10.652 | 19. | 7. | 5.874 | 2.424 | 8. | 9. | 12. | 13. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 23 | 336. | 350.261 | 498. | 221. | 6675.747 | 81.705 | 237.2 | 290. | 418. | 484.8 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 23 | 0.6 | 0.591 | 0.9 | 0.3 | 0.022 | 0.147 | 0.4 | 0.5 | 0.7 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 23 | 14. | 14.226 | 17. | 5.2 | 5.103 | 2.259 | 13. | 14. | 15. | 16.6 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 23 | 150. | 150.87 | 210. | 80. | 1108.3 | 33.291 | 104. | 130. | 180. | 196. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 1 | 120. | 120. | 120. | 120. | 0. | 0. | ** | ** | ** | ** |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 08/20/58-09/16/68 | 23 | 720. | 723.043 | 956. | 524. | 15199.953 | 123.288 | 546.8 | 612. | 814. | 911.2 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 23 | 1650.01 | 1885.662 | 3300.01 | 1240.01 | 325326.024 | 570.374 | 1370.01 | 1490.01 | 2180.01 | 3018.01 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 23 | 0.98 | 0.983 | 1.3 | 0.71 | 0.028 | 0.167 | 0.748 | 0.83 | 1.11 | 1.238 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 23 | 2.3 | 2.513 | 6.3 | 0.1 | 3.026 | 1.739 | 0.44 | 1.3 | 3. | 6.1 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 1 | 401. | 401. | 401. | 401. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 2 | 518. | 518. | 536. | 500. | 648. | 25.456 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 1 | 1300. | 1300. | 1300. | 1300. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 3 | 450. | 508.333 | 625. | 450. | 10208.333 | 101.036 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 1 | 1500. | 1500. | 1500. | 1500. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 1 | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 8 | 837.5 | 1433.125 | 5600. | 320. | 3012592.411 | 1735.682 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 8 | 965. | 955. | 1300. | 390. | 77114.286 | 277.695 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 8 | 7.9 | 7.9 | 8.3 | 7.5 | 0.071 | 0.267 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 8 | 7.9 | 7.829 | 8.3 | 7.5 | 0.077 | 0.278 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 8 | 0.013 | 0.015 | 0.032 | 0.005 | 0. | 0.009 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|------------|-----------|-------|--------|--------|-------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 10 | 775.5 | 899.1 | 2370. | 342. | 360324.767 | 600.271 | 344.3 | 404.75 | 1052.5 | 2266. |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 10 | 905. | 874. | 1120. | 480. | 30204.444 | 173.794 | 508. | 782.5 | 1000. | 1108. |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 10 | 8.2 | 8.15 | 8.4 | 7.9 | 0.029 | 0.172 | 7.9 | 7.975 | 8.3 | 8.39 |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 10 | 8.2 | 8.119 | 8.4 | 7.9 | 0.031 | 0.175 | 7.9 | 7.975 | 8.3 | 8.39 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 10 | 0.006 | 0.008 | 0.013 | 0.004 | 0. | 0.003 | 0.004 | 0.005 | 0.011 | 0.013 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 5 | 663. | 1314.4 | 4380. | 411. | 2954016.3 | 1718.725 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 5 | 520. | 660.2 | 1090. | 341. | 109190.2 | 330.439 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 5 | 8.3 | 8.3 | 8.4 | 8.2 | 0.01 | 0.1 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 5 | 8.3 | 8.291 | 8.4 | 8.2 | 0.01 | 0.101 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 5 | 0.005 | 0.005 | 0.006 | 0.004 | 0. | 0.001 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 4 | 627. | 542. | 636. | 278. | 31036.667 | 176.172 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 4 | 867.5 | 911.25 | 1170. | 740. | 34072.917 | 184.589 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.15 | 8.175 | 8.3 | 8.1 | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.147 | 8.167 | 8.3 | 8.1 | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 4 | 0.007 | 0.007 | 0.008 | 0.005 | 0. | 0.001 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|------------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 4 | 930. | 1237.5 | 2540. | 550. | 867758.333 | 931.535 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 4 | 945. | 815. | 1000. | 370. | 88700. | 297.825 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.2 | 8.175 | 8.3 | 8. | 0.016 | 0.126 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.2 | 8.161 | 8.3 | 8. | 0.016 | 0.127 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 4 | 0.006 | 0.007 | 0.01 | 0.005 | 0. | 0.002 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 4 | 384. | 411.25 | 540. | 337. | 8124.917 | 90.138 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 4 | 1115. | 1070. | 1140. | 910. | 11933.333 | 109.24 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.15 | 8.125 | 8.2 | 8. | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.147 | 8.117 | 8.2 | 8. | 0.009 | 0.096 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 4 | 0.007 | 0.008 | 0.01 | 0.006 | 0. | 0.002 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BICA0026

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|-----------|-----------|------|------|------|------|
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 4 | 320.5 | 356. | 475. | 308. | 6328.667 | 79.553 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 4 | 1340. | 1285. | 1450. | 1010. | 36366.667 | 190.7 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.5 | 8.425 | 8.5 | 8.2 | 0.023 | 0.15 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 4 | 8.5 | 8.404 | 8.5 | 8.2 | 0.023 | 0.152 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 4 | 0.003 | 0.004 | 0.006 | 0.003 | 0. | 0.002 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|------|------|------|------|
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 3 | 880. | 1086.667 | 1550. | 830. | 161633.333 | 402.036 | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 3 | 8.3 | 8.233 | 8.4 | 8. | 0.043 | 0.208 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 3 | 8.3 | 8.199 | 8.4 | 8. | 0.045 | 0.212 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 3 | 0.005 | 0.006 | 0.01 | 0.004 | 0. | 0.003 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|---------|---------|----------|---------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/59-08/23/89 | 45 | 8. | 7.731 | 20.5 | 0. | 45.496 | 6.745 | 0. | 0.85 | 13. | 17.88 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 12/17/81-08/23/89 | 27 | 12. | 8.593 | 31.5 | -25. | 215.905 | 14.694 | 1. | 7. | 28. | -15.8 |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 10/04/82-08/23/89 | 23 | 665. | 665.435 | 710. | 633. | 219.166 | 14.804 | 648.6 | 658. | 675. | 680. |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 104 | 973.5 | 978.115 | 2780. | 268. | 142699.152 | 377.755 | 555.5 | 696.25 | 1186.5 | 1412. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 65 | 694. | 880.908 | 3300. | 150. | 379052.304 | 615.672 | 320.6 | 462.5 | 1100. | 1514. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 76 | 5. | 4.934 | 20. | 1. | 9.956 | 3.155 | 2. | 3. | 6. | 7.3 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 134 | 1085. | 1132.679 | 2540. | 377. | 96326.385 | 310.365 | 830.5 | 950. | 1252.5 | 1535. |
| 00300 | OXYGEN, DISSOLVED MG/L | 02/10/82-08/23/89 | 27 | 11.2 | 10.733 | 13.2 | 6.7 | 3.27 | 1.808 | 8.04 | 9.6 | 12. | 13.02 |
| 00400p | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 134 | 7.75 | 7.779 | 8.5 | 7. | 0.111 | 0.334 | 7.35 | 7.5 | 8. | 8.2 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 134 | 7.747 | 7.658 | 8.5 | 7. | 0.126 | 0.355 | 7.35 | 7.5 | 8. | 8.2 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 134 | 0.018 | 0.022 | 0.1 | 0.003 | 0. | 0.017 | 0.006 | 0.01 | 0.032 | 0.045 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 105 | 258. | 257.648 | 450. | 113. | 2478.769 | 49.787 | 212.2 | 225.5 | 282. | 313.4 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 96 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 12/02/80-08/23/89 | 30 | 0.11 | 0.11 | 0.35 | 0.02 | 0.004 | 0.063 | 0.033 | 0.068 | 0.13 | 0.176 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 12/02/80-08/23/89 | 30 | 0.685 | 0.967 | 6.8 | 0.1 | 1.337 | 1.156 | 0.31 | 0.575 | 1. | 1.3 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 12/02/80-08/23/89 | 30 | 0.845 | 0.884 | 1.7 | 0.1 | 0.15 | 0.388 | 0.31 | 0.688 | 1.2 | 1.39 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 12/02/80-08/23/89 | 30 | 0.06 | 0.23 | 4.2 | 0.02 | 0.567 | 0.753 | 0.03 | 0.04 | 0.135 | 0.238 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 105 | 370. | 382.657 | 794. | 121. | 11219.054 | 105.92 | 283.6 | 319.5 | 427. | 524.2 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 105 | 159. | 172.257 | 456. | 28. | 4952.866 | 70.377 | 107.6 | 134.5 | 188. | 272.6 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 105 | 96. | 97.467 | 185. | 31. | 679.097 | 26.059 | 75. | 82. | 106. | 129.2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 105 | 32. | 33.945 | 81. | 6.2 | 135.678 | 11.648 | 22.6 | 27. | 38.5 | 47. |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 08/20/58-09/16/68 | 105 | 109. | 117.01 | 288. | 31. | 1624.433 | 40.304 | 78.6 | 91.5 | 128.5 | 170. |
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 105 | 2.5 | 2.568 | 4.7 | 1.2 | 0.314 | 0.56 | 1.96 | 2.15 | 2.9 | 3.34 |
| 00932 | SODIUM, PERCENT | 08/20/58-09/16/68 | 49 | 39. | 38.837 | 48. | 32. | 17.556 | 4.19 | 33. | 35. | 41.5 | 45. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 105 | 4.3 | 4.451 | 8.7 | 1.7 | 1.542 | 1.242 | 3.22 | 3.6 | 5. | 6. |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 105 | 11. | 12.581 | 32. | 3. | 24.707 | 4.971 | 8. | 9.5 | 14.5 | 20. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 105 | 357. | 391.505 | 990. | 90. | 20511.656 | 143.219 | 248. | 316. | 432.5 | 593.8 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 105 | 0.6 | 0.606 | 1.2 | 0.3 | 0.025 | 0.157 | 0.4 | 0.5 | 0.7 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 105 | 16. | 15.707 | 22. | 5.2 | 4.4 | 2.098 | 14. | 15. | 17. | 18. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 105 | 200. | 211.048 | 500. | 40. | 6197.93 | 78.727 | 130. | 165. | 240. | 324. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 33 | 10. | 11.818 | 120. | 0. | 509.091 | 22.563 | 0. | 0. | 10. | 20. |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 27 | 270. | 336.741 | 1200. | 10. | 88557.584 | 297.586 | 47. | 110. | 510. | 826. |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 27 | 2.431 | 2.329 | 3.079 | 1. | 0.233 | 0.483 | 1.668 | 2.041 | 2.708 | 2.916 |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 213.206 | | | | | | | | |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 08/20/58-09/16/68 | 105 | 774. | 829.838 | 1840. | 242. | 66790.079 | 258.438 | 584.6 | 680. | 910. | 1194. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/03/58-09/16/68 | 24 | 685.5 | 829.833 | 1730. | 517. | 121633.71 | 348.76 | 542. | 613.75 | 983.75 | 1545. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 105 | 1930.01 | 2007.98 | 4030. | 737. | 413257.725 | 642.851 | 1240.01 | 1490.01 | 2465.005 | 2842.01 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 105 | 1.05 | 1.129 | 2.51 | 0.33 | 0.124 | 0.352 | 0.796 | 0.925 | 1.235 | 1.622 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 95 | 2.9 | 2.974 | 6.7 | 0.1 | 2.16 | 1.47 | 1. | 2. | 3.9 | 4.9 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 56 | 10. | 22.5 | 180. | 0. | 1619.091 | 40.238 | 0. | 0. | 10. | 90. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/59-08/23/89 | 25 | 15. | 15.88 | 25.5 | 9.4 | 15.735 | 3.967 | 10.6 | 13.15 | 19.15 | 21.54 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 12/17/81-08/23/89 | 8 | 19.5 | 18.563 | 23. | 14. | 11.817 | 3.438 | ** | ** | ** | ** |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 10/04/82-08/23/89 | 7 | 667. | 667.143 | 680. | 653. | 75.81 | 8.707 | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 40 | 877.5 | 961.35 | 5722. | 241. | 727447.31 | 852.905 | 331.3 | 524.5 | 1081. | 1407. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 26 | 482.5 | 623.115 | 1720. | 241. | 152786.746 | 390.879 | 313. | 334. | 846. | 1345. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 19 | 6. | 12.316 | 90. | 1. | 410.339 | 20.257 | 1. | 5. | 8. | 35. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 38 | 1115. | 1146.553 | 1710. | 594. | 65158.957 | 255.263 | 857. | 1007.5 | 1205. | 1592. |
| 00300 | OXYGEN, DISSOLVED MG/L | 02/10/82-08/23/89 | 8 | 9.6 | 9.663 | 10.9 | 7.8 | 1.046 | 1.023 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 38 | 7.7 | 7.808 | 8.5 | 7.1 | 0.123 | 0.351 | 7.3 | 7.575 | 8.025 | 8.31 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 38 | 7.7 | 7.677 | 8.5 | 7.1 | 0.14 | 0.375 | 7.3 | 7.575 | 8.025 | 8.31 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 38 | 0.02 | 0.021 | 0.079 | 0.003 | 0. | 0.017 | 0.005 | 0.009 | 0.027 | 0.05 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|------------|-----------|----------|---------|---------|---------|
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 30 | 223. | 226.567 | 272. | 160. | 601.702 | 24.53 | 202.2 | 214.75 | 236. | 267.6 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 28 | 0. | 0.25 | 7. | 0. | 1.75 | 1.323 | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 12/02/80-08/23/89 | 8 | 0.09 | 0.098 | 0.15 | 0.05 | 0.001 | 0.038 | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 12/02/80-08/23/89 | 8 | 1.3 | 1.263 | 2.4 | 0.4 | 0.463 | 0.68 | ** | ** | ** | ** |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 12/02/80-08/23/89 | 8 | 1.15 | 1.125 | 1.3 | 0.9 | 0.022 | 0.149 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 12/02/80-08/23/89 | 8 | 0.27 | 0.279 | 0.61 | 0.05 | 0.046 | 0.215 | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 30 | 348. | 361.667 | 531. | 180. | 6184.506 | 78.642 | 288.1 | 309.75 | 396.75 | 478.5 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 30 | 164.5 | 175.433 | 308. | 49. | 3705.564 | 60.873 | 112.1 | 139. | 207.75 | 262.7 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 30 | 86. | 88.033 | 140. | 48. | 465.482 | 21.575 | 67. | 73.75 | 95.5 | 122.3 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 30 | 33.5 | 34.633 | 48. | 15. | 74.93 | 8.656 | 19.7 | 30. | 43.25 | 44.9 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 30 | 124.5 | 131.567 | 200. | 56. | 1161.22 | 34.077 | 97.2 | 107.75 | 145.25 | 186. |
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 30 | 2.95 | 2.983 | 3.8 | 1.8 | 0.217 | 0.466 | 2.5 | 2.7 | 3.325 | 3.7 |
| 00932 | SODIUM, PERCENT | 08/20/58-09/16/68 | 15 | 44. | 43.733 | 47. | 41. | 3.21 | 1.792 | 41. | 42. | 45. | 46.4 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 30 | 3.75 | 3.693 | 5.1 | 2. | 0.669 | 0.818 | 2.4 | 3.075 | 4.35 | 4.87 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 30 | 12.5 | 13.7 | 24. | 6. | 17.252 | 4.154 | 9.1 | 10.75 | 17. | 19.9 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 30 | 400.5 | 427.867 | 720. | 159. | 17125.844 | 130.866 | 304.9 | 337. | 490. | 641.6 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 30 | 0.6 | 0.607 | 0.9 | 0.4 | 0.017 | 0.128 | 0.41 | 0.5 | 0.7 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 08/20/58-09/16/68 | 30 | 15. | 15.3 | 18. | 12. | 2.493 | 1.579 | 13.1 | 14. | 17. | 17. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 30 | 175. | 187.333 | 370. | 80. | 4854.713 | 69.676 | 110. | 140. | 207.5 | 299. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 8 | 15. | 21.25 | 90. | 0. | 841.071 | 29.001 | ** | ** | ** | ** |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 8 | 735. | 679.375 | 1230. | 165. | 149503.125 | 386.656 | ** | ** | ** | ** |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 8 | 2.866 | 2.747 | 3.09 | 2.217 | 0.1 | 0.316 | ** | ** | ** | ** |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 559.007 | | | | | | | | |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 08/20/58-09/16/68 | 30 | 816.5 | 861.167 | 1330. | 395. | 47058.971 | 216.931 | 646.2 | 719. | 941. | 1209. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/03/58-09/16/68 | 8 | 809. | 854.125 | 1160. | 605. | 42241.554 | 205.528 | ** | ** | ** | ** |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 30 | 1785.01 | 1913.641 | 6100. | 865. | 959345.559 | 979.462 | 1045.009 | 1235.01 | 2132.51 | 3014.01 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 30 | 1.11 | 1.171 | 1.81 | 0.54 | 0.087 | 0.295 | 0.876 | 0.978 | 1.28 | 1.648 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 28 | 3.15 | 3.043 | 6.5 | 0.1 | 2.106 | 1.451 | 0.47 | 2.3 | 4.075 | 4.9 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 16 | 15. | 32.5 | 130. | 0. | 1646.667 | 40.579 | 0. | 10. | 65. | 102. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0026

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/59-08/23/89 | 12 | 17.5 | 17.992 | 23.9 | 13. | 8.628 | 2.937 | 13.3 | 17. | 19.75 | 23.06 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 12/17/81-08/23/89 | 7 | 26.5 | 27. | 35. | 18. | 29.083 | 5.393 | ** | ** | ** | ** |
| 00025 | BAROMETRIC PRESSURE (MM OF HG) | 10/04/82-08/23/89 | 6 | 663.5 | 664.5 | 680. | 655. | 93.1 | 9.649 | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/59-09/16/68 | 29 | 868. | 2474.483 | 10400. | 410. | 7611553.687 | 2758.904 | 496. | 726. | 4325. | 6576. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 08/20/58-08/23/89 | 17 | 858. | 1679.588 | 5600. | 404. | 2745230.132 | 1656.874 | 408.8 | 523. | 2455. | 4736. |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 08/20/58-05/12/66 | 17 | 7. | 7.412 | 13. | 4. | 7.882 | 2.808 | 4. | 5. | 9.5 | 12.2 |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/20/58-08/23/89 | 34 | 1045. | 920.529 | 1530. | 312. | 147295.772 | 383.791 | 358.5 | 470.5 | 1205. | 1350. |
| 00300 | OXYGEN, DISSOLVED MG/L | 02/10/82-08/23/89 | 7 | 8.9 | 9.086 | 10.7 | 7.9 | 0.741 | 0.861 | ** | ** | ** | ** |
| 00400p | PH (STANDARD UNITS) | 08/20/58-08/23/89 | 34 | 7.7 | 7.712 | 8.2 | 7. | 0.117 | 0.343 | 7.25 | 7.475 | 8. | 8.2 |
| 00400p | CONVERTED PH (STANDARD UNITS) | 08/20/58-08/23/89 | 34 | 7.7 | 7.583 | 8.2 | 7. | 0.134 | 0.367 | 7.25 | 7.475 | 8. | 8.2 |
| 00400p | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/20/58-08/23/89 | 34 | 0.02 | 0.026 | 0.1 | 0.006 | 0. | 0.021 | 0.006 | 0.01 | 0.034 | 0.057 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 08/20/58-09/16/68 | 27 | 222. | 202.444 | 249. | 119. | 2072.026 | 45.52 | 119. | 165. | 238. | 246.2 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/59-09/16/68 | 25 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 12/02/80-08/23/89 | 7 | 0.09 | 0.083 | 0.14 | 0.02 | 0.002 | 0.039 | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 12/02/80-08/23/89 | 7 | 0.8 | 0.929 | 1.3 | 0.6 | 0.089 | 0.298 | ** | ** | ** | ** |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 12/02/80-08/23/89 | 7 | 0.6 | 0.85 | 1.5 | 0.3 | 0.249 | 0.499 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 12/02/80-08/23/89 | 7 | 0.21 | 0.239 | 0.37 | 0.11 | 0.009 | 0.096 | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 08/20/58-09/16/68 | 27 | 326. | 302.148 | 457. | 117. | 11455.054 | 107.028 | 117. | 226. | 390. | 420. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 08/20/58-09/16/68 | 27 | 145. | 136.148 | 262. | 17. | 5058.516 | 71.123 | 19. | 91. | 196. | 216.8 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 08/20/58-09/16/68 | 27 | 86. | 77.185 | 115. | 31. | 723.541 | 26.899 | 34.2 | 46. | 100. | 105. |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 08/20/58-09/16/68 | 27 | 29. | 26.704 | 43. | 6. | 111.807 | 10.574 | 9.6 | 23. | 35. | 38.4 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 08/20/58-09/16/68 | 27 | 123. | 108.519 | 170. | 23. | 2299.567 | 47.954 | 28.6 | 78. | 147. | 165.8 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0026

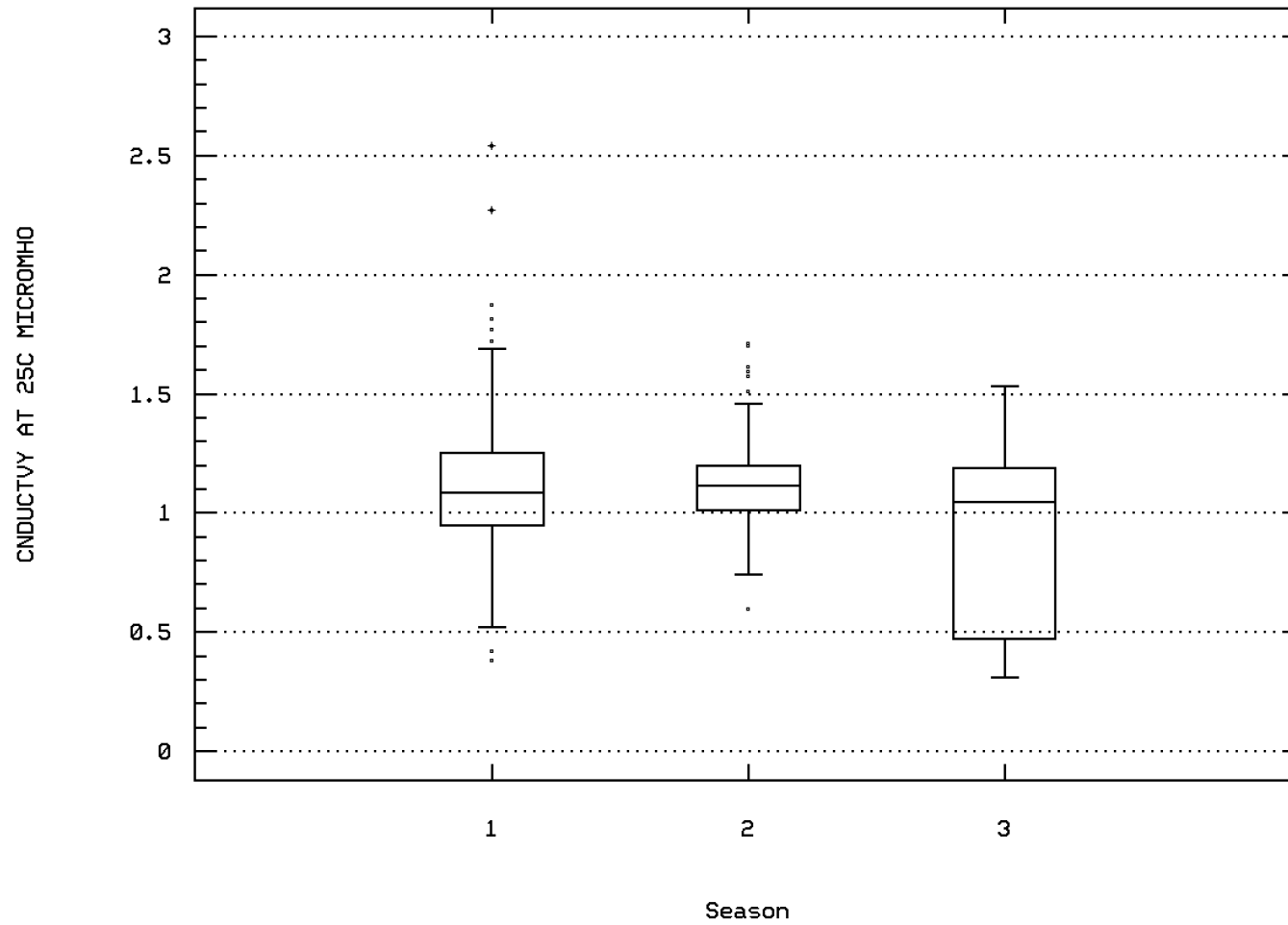
| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|----------|---------|---------|--------|
| 00931 | SODIUM ADSORPTION RATIO | 08/20/58-09/16/68 | 27 | 2.9 | 2.611 | 3.5 | 0.9 | 0.706 | 0.84 | 1.18 | 2.3 | 3.3 | 3.5 |
| 00932 | SODIUM, PERCENT | 08/20/58-09/16/68 | 12 | 45. | 43.833 | 47. | 30. | 20.333 | 4.509 | 33.9 | 44. | 45.75 | 47. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 08/20/58-09/16/68 | 27 | 3.6 | 3.156 | 4.6 | 1. | 1.127 | 1.062 | 1.38 | 2.1 | 3.7 | 4.4 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 08/20/58-09/16/68 | 27 | 11. | 10.037 | 19. | 2. | 22.652 | 4.759 | 2.8 | 7. | 12. | 17.2 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 08/20/58-09/16/68 | 27 | 384. | 343.852 | 602. | 59. | 26432.208 | 162.58 | 79. | 230. | 471. | 525. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 08/20/58-09/16/68 | 27 | 0.6 | 0.548 | 0.8 | 0.2 | 0.024 | 0.155 | 0.3 | 0.5 | 0.6 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 08/20/58-09/16/68 | 27 | 16. | 16.074 | 17. | 14. | 0.764 | 0.874 | 15. | 15. | 17. | 17. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 08/20/58-09/16/68 | 27 | 170. | 156.667 | 350. | 30. | 7361.538 | 85.799 | 38. | 80. | 210. | 274. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 08/20/58-04/05/68 | 8 | 10. | 10. | 20. | 0. | 28.571 | 5.345 | ** | ** | ** | ** |
| 31625 | FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 7 | 510. | 512.857 | 970. | 270. | 65157.143 | 255.259 | ** | ** | ** | ** |
| 31625 | LOG FECAL COLIFORM, MF,M-FC, 0.7 UM | 02/10/82-08/23/89 | 7 | 2.708 | 2.666 | 2.987 | 2.431 | 0.044 | 0.21 | ** | ** | ** | ** |
| 31625 | GM FECAL COLIFORM, MF,M-FC, 0.7 UM | GEOMETRIC MEAN = | | | 463.257 | | | | | | | | |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 08/20/58-09/16/68 | 27 | 772. | 710.593 | 1150. | 196. | 81719.943 | 285.867 | 230.8 | 506. | 955. | 1021.2 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/03/58-09/16/68 | 5 | 771. | 804.6 | 942. | 720. | 7125.3 | 84.411 | ** | ** | ** | ** |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 08/20/58-09/16/68 | 27 | 2220.01 | 2943.344 | 10590.1 | 1420.01 | 3997162.923 | 1999.291 | 1486.008 | 1650.01 | 3550.01 | 5476. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 08/20/58-09/16/68 | 27 | 1.05 | 0.967 | 1.56 | 0.27 | 0.15 | 0.388 | 0.318 | 0.69 | 1.3 | 1.388 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 11/30/59-09/16/68 | 25 | 3.2 | 3.628 | 6.6 | 0.2 | 4.246 | 2.061 | 0.36 | 1.8 | 5.4 | 6.34 |
| 71885 | IRON (UG/L AS FE) | 11/30/59-07/03/67 | 16 | 10. | 14.375 | 100. | 0. | 546.25 | 23.372 | 0. | 10. | 10. | 44. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0026 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

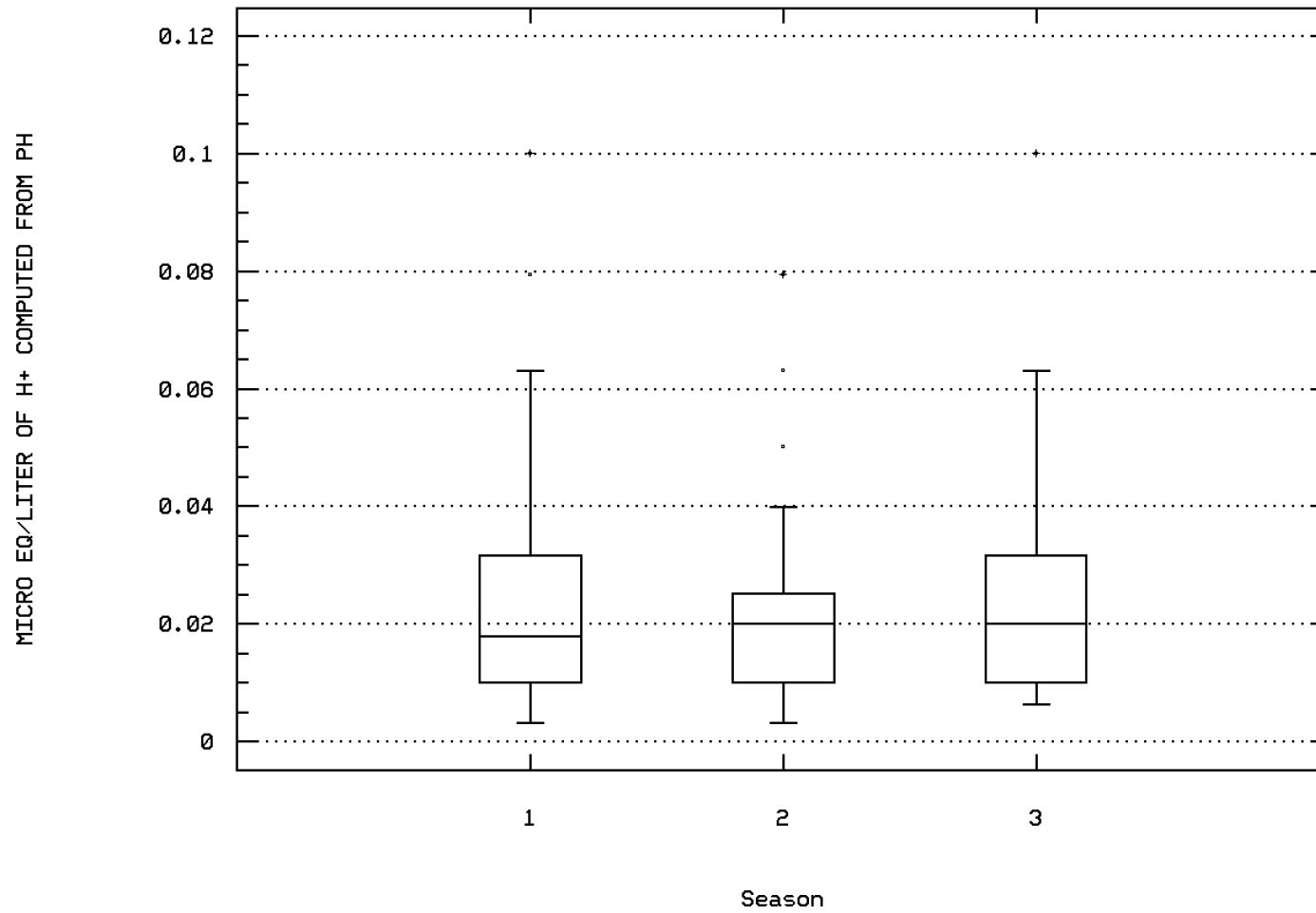
(X 1000)



SHOSHONE RIVER AT KANE, WY

Station: BICA0026 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



SHOSHONE RIVER AT KANE, WY

Station Inventory for Station: BICA0027

NPS Station ID: BICA0027
Location: SHOSHONE R AT KANE
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080014
Major Basin: MISSOURI R
Minor Basin: YELLOWSTONE R
RF1 Index: 10080014002
RF3 Index: 10080014121700.00
Description:

LAT/LON: 44.858616/-108.331116

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.240
RF3 Mile Point: 0.78

Agency: 11NATDC
FIPS State/County: 56003 WYOMING/BIG HORN
STORET Station ID(s): T0708121 /2094
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 6.80
Distance from RF3: 0.03

Date Created: 07/20/85

On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: BICA0027

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------------|------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| ***** Data for this station locked by controlling agency ***** | | | | | | | | | | | | |

Station Inventory for Station: BICA0028

NPS Station ID: BICA0028

Location: SHOSHONE R BL SAND DRAW NR LOVEL

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 10080014

Major Basin:

Minor Basin:

RF1 Index: 10080014002

RF3 Index: 10080010003700.00

Description:

LAT/LON: 44.858892/-108.330559

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.140

RF3 Mile Point: 0.00

Agency: 112WRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): 445132108195000

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

Date Created: 05/18/77

On/Off RF1: ON

On/Off RF3:

Parameter Inventory for Station: BICA0028

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 09/16/76-09/16/76 | 1 | 889. | 889. | 889. | 889. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0029

NPS Station ID: BICA0029 LAT/LON: 44.861588/-108.208116
 Location: SHOSHONE RIVER 1 MILE NORTH OF KANE WYOMING
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010 RF1 Mile Point: 0.000
 RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_SOLT_SHOSH
 Within Park Boundary: Yes

Date Created: 11/15/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE SHOSHONE RIVER APPROXIMATELY 1 MILE NORTH OF KANE WYOMING AND 1.5 MILES UPSTREAM FROM ITS MOUTH INTO BIGHORN LAKE. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0029

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/22/68-08/18/69 | 41 | 14.7 | 13.032 | 25. | 0. | 49.667 | 7.047 | 1. | 6.65 | 19. | 21.04 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 02/22/68-08/18/69 | 44 | 225. | 396.795 | 2540. | 22. | 296993.701 | 544.971 | 33. | 121.5 | 370.75 | 1052.5 |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 02/22/68-08/18/69 | 42 | 950. | 987. | 1684. | 507. | 47563.317 | 218.09 | 747.7 | 841. | 1126. | 1300.5 |
| 00403 PH, LAB, STANDARD UNITS SU | 02/22/68-08/18/69 | 43 | 8.3 | 8.263 | 8.5 | 7.7 | 0.047 | 0.216 | 7.84 | 8.2 | 8.4 | 8.46 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 02/22/68-08/18/69 | 43 | 8.3 | 8.199 | 8.5 | 7.7 | 0.051 | 0.226 | 7.84 | 8.2 | 8.4 | 8.46 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/22/68-08/18/69 | 43 | 0.005 | 0.006 | 0.02 | 0.003 | 0. | 0.004 | 0.003 | 0.004 | 0.006 | 0.015 |
| 00406 PH, FIELD, STANDARD UNITS SU | 02/22/68-08/11/69 | 38 | 8.24 | 8.195 | 8.56 | 7.35 | 0.087 | 0.296 | 7.732 | 8.11 | 8.4 | 8.5 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 02/22/68-08/11/69 | 38 | 8.24 | 8.064 | 8.56 | 7.35 | 0.105 | 0.324 | 7.732 | 8.11 | 8.4 | 8.5 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/22/68-08/11/69 | 38 | 0.006 | 0.009 | 0.045 | 0.003 | 0. | 0.01 | 0.003 | 0.004 | 0.008 | 0.019 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 02/22/68-08/18/69 | 45 | 208. | 214.289 | 384. | 110. | 2460.392 | 49.602 | 159. | 176.5 | 250. | 282.2 |
| 00600 NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/11/69 | 42 | 0.94 | 0.934 | 2.82 | 0.03 | 0.248 | 0.498 | 0.183 | 0.603 | 1.193 | 1.431 |
| 00602 NITROGEN, DISSOLVED (MG/L AS N) | 02/22/68-08/11/69 | 35 | 0.53 | 0.602 | 1.7 | 0. | 0.167 | 0.409 | 0.13 | 0.32 | 0.84 | 1.328 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 43 | 0.23 | 0.268 | 0.71 | 0. | 0.031 | 0.175 | 0.074 | 0.15 | 0.34 | 0.59 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 43 | 0.01 | 0.011 | 0.029 | 0. | 0. | 0.005 | 0.005 | 0.008 | 0.013 | 0.018 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 44 | 0.8 | 0.816 | 1.67 | 0. | 0.147 | 0.384 | 0.345 | 0.555 | 1.073 | 1.375 |
| 00650 PHOSPHATE, TOTAL (MG/L AS PO4) | 02/22/68-08/18/69 | 44 | 0.575 | 0.636 | 2.23 | 0. | 0.275 | 0.525 | 0.04 | 0.225 | 0.873 | 1.28 |
| 00653 PHOSPHATE, TOTAL SOLUBLE (MG/L) | 02/22/68-08/18/69 | 38 | 0.085 | 0.112 | 1.1 | 0. | 0.036 | 0.189 | 0. | 0.008 | 0.12 | 0.22 |
| 00655 PHOSPHATE, POLY (MG/L AS PO4) | 01/18/69-08/18/69 | 26 | 0.115 | 0.13 | 0.46 | 0. | 0.017 | 0.13 | 0. | 0.008 | 0.228 | 0.31 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 02/22/68-08/18/69 | 45 | 0.07 | 0.1 | 0.64 | 0. | 0.014 | 0.118 | 0. | 0.015 | 0.14 | 0.254 |
| 00680 CARBON, TOTAL ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 31 | 14.8 | 16.3 | 38.6 | 4.9 | 80.427 | 8.968 | 5.72 | 7.7 | 21.4 | 29.66 |
| 00681 CARBON, DISSOLVED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 31 | 7.5 | 8.994 | 24.9 | 1.5 | 21.06 | 4.589 | 4.92 | 6.4 | 11.4 | 15.4 |
| 00689 CARBON, SUSPENDED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 31 | 2.7 | 7.116 | 27. | 0. | 65.896 | 8.118 | 0. | 0.6 | 12.1 | 21.6 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0029

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|--------|---------|---------|
| 00916 | CALCIUM, TOTAL (MG/L AS CA) | 02/22/68-08/18/69 | 45 | 79.8 | 83.858 | 152.7 | 28.1 | 640.025 | 25.299 | 57.14 | 72.45 | 92.9 | 120.6 |
| 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 02/22/68-08/18/69 | 45 | 25.9 | 26.111 | 46.7 | 10.5 | 61.742 | 7.858 | 16.1 | 21.35 | 30.5 | 37.88 |
| 00929 | SODIUM, TOTAL (MG/L AS NA) | 02/22/68-08/18/69 | 45 | 100. | 102.243 | 157.24 | 39.54 | 863.642 | 29.388 | 64.83 | 78.505 | 126.785 | 141.426 |
| 00937 | POTASSIUM, TOTAL MG/L AS K) | 02/22/68-08/18/69 | 45 | 5.08 | 5.238 | 8.6 | 2.35 | 1.676 | 1.295 | 3.91 | 4.3 | 5.86 | 7.04 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 02/22/68-08/18/69 | 45 | 11. | 10.956 | 24. | 5. | 11.634 | 3.411 | 7. | 9. | 12.5 | 15. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 02/22/68-08/18/69 | 45 | 302. | 330.956 | 650. | 149. | 14288.043 | 119.533 | 199. | 257. | 367.5 | 523. |
| 00951 | FLUORIDE, TOTAL (MG/L AS F) | 02/22/68-08/18/69 | 45 | 0.76 | 0.832 | 2.09 | 0.38 | 0.091 | 0.301 | 0.57 | 0.76 | 0.95 | 1.14 |
| 00956 | SILICA, TOTAL (MG/L AS SI02) | 03/07/68-08/18/69 | 43 | 13.6 | 13.835 | 18.5 | 7.6 | 5.735 | 2.395 | 10.84 | 12.5 | 16. | 16.92 |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 02/22/68-08/18/69 | 44 | 1. | 2.139 | 21. | 0.5 | 9.572 | 3.094 | 0.8 | 1. | 2. | 3.5 |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | 02/22/68-08/18/69 | 44 | 26.5 | 115.477 | 560. | 1. | 21493.744 | 146.607 | 3.5 | 10.25 | 184.5 | 368.5 |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 03/28/68-08/18/69 | 40 | 32.5 | 50.625 | 173. | 4. | 2441.317 | 49.41 | 8.2 | 16.5 | 55.5 | 141. |
| 74010 | IRON, TOTAL (MG/L AS FE) | 02/22/68-08/18/69 | 43 | 0.26 | 0.863 | 3.9 | 0.001 | 1.377 | 1.173 | 0.009 | 0.04 | 1.17 | 3.232 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0029

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 44 | 37 | 0.84 | 22 | 15 | 0.68 | 12 | 12 | 1.00 | 10 | 10 | 1.00 | | |
| 00403 | PH, LAB | Fresh Chronic | 9. | 43 | 0 | 0.00 | 21 | 0 | 0.00 | 13 | 0 | 0.00 | 9 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 43 | 0 | 0.00 | 21 | 0 | 0.00 | 13 | 0 | 0.00 | 9 | 0 | 0.00 | | |
| 00406 | PH, FIELD | Fresh Chronic | 9. | 38 | 0 | 0.00 | 17 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 38 | 0 | 0.00 | 17 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 43 | 0 | 0.00 | 21 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 44 | 0 | 0.00 | 22 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 45 | 0 | 0.00 | 22 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 45 | 0 | 0.00 | 22 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 45 | 35 | 0.78 | 22 | 15 | 0.68 | 13 | 12 | 0.92 | 10 | 8 | 0.80 | | |
| 00951 | FLUORIDE, TOTAL AS F | Drinking Water | 4. | 45 | 0 | 0.00 | 22 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 01042 | COPPER, TOTAL | Fresh Acute | 18. | 44 | 1 | 0.02 | 22 | 1 | 0.05 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| | | Drinking Water | 1300. | 44 | 0 | 0.00 | 22 | 0 | 0.00 | 12 | 0 | 0.00 | 10 | 0 | 0.00 | | |
| 01092 | ZINC, TOTAL | Fresh Acute | 120. | 40 | 6 | 0.15 | 20 | 1 | 0.05 | 12 | 3 | 0.25 | 8 | 2 | 0.25 | | |
| | | Drinking Water | 5000. | 40 | 0 | 0.00 | 20 | 0 | 0.00 | 12 | 0 | 0.00 | 8 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0030

NPS Station ID: BICA0030
 Location: W00113
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 44.863615/-108.113616

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_NURE_038 /1151476
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0030

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/05/76-08/05/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 1 | 2.19 | 2.19 | 2.19 | 2.19 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0030

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0031

NPS Station ID: BICA0031

Location: BIGHORN LAKE 1 MILE EAST OF SHOSHONE RIVER INLET

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 1 MILE EAST OF THE SHOSHONE RIVER INLET. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 44.868920/-108.181504

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_EPA_1E

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 12/20/97

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0031

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 08/29/75-10/17/75 | 2 | 0.455 | 0.455 | 0.61 | 0.3 | 0.048 | 0.219 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 7.9 | 9.433 | 16.9 | 3.5 | 46.653 | 6.83 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0032

NPS Station ID: BICA0032
 Location: YELLOWTAIL RESERVOIR-BELOW INLET
 Station Type: /RESERV/TYPA/AMBNT
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080014
 RF3 Index: 10080010005409.01
 Description:

LAT/LON: 44.875281/-108.213338

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 9.04

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 090303-1
 Within Park Boundary: Yes

Date Created: 11/03/84

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.02

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0032

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/13/84-08/07/85 | 6 | 25.5 | 25.333 | 29. | 23. | 5.067 | 2.251 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/13/84-08/07/85 | 6 | 8.575 | 8.533 | 9. | 8. | 0.144 | 0.379 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/13/84-08/07/85 | 6 | 8.574 | 8.397 | 9. | 8. | 0.166 | 0.407 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/13/84-08/07/85 | 6 | 0.003 | 0.004 | 0.01 | 0.001 | 0. | 0.003 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 06/13/84-08/07/85 | 6 | 0.245 | 0.443 | 1.26 | 0.005 | 0.232 | 0.482 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/13/84-08/07/85 | 6 | 0.099 | 0.123 | 0.23 | 0.06 | 0.005 | 0.072 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 06/13/84-08/07/85 | 6 | 297. | 569. | 1345. | 197. | 245561.6 | 495.542 | ** | ** | ** | ** |
| 00951 FLUORIDE, TOTAL (MG/L AS F) | 06/13/84-08/07/85 | 6 | 0.485 | 0.51 | 0.72 | 0.37 | 0.022 | 0.147 | ** | ** | ** | ** |
| 31613 FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 06/13/84-07/31/86 | 6 | 66. | 85.667 | 250. | 2. | 8415.067 | 91.734 | ** | ** | ** | ** |
| 31613 LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24 | 06/13/84-07/31/86 | 6 | 1.81 | 1.566 | 2.398 | 0.301 | 0.602 | 0.776 | ** | ** | ** | ** |
| 31613 GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H | GEOMETRIC MEAN = | | | 36.83 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0032

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|---------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--|--|---------------------|---|------|---------------------|---|------|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 6 | 1 | 0.17 | | | | 2 | 1 | 0.50 | 4 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 6 | 0 | 0.00 | | | | 2 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 6 | 0 | 0.00 | | | | 2 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| | Drinking Water | 4. | 6 | 0 | 0.00 | | | | 2 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 00951 FLUORIDE, TOTAL AS F | | | | | | | | | | | | | | | | | |
| 31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR | Other-Hi Lim. | 200. | 6 | 1 | 0.17 | | | | 2 | 1 | 0.50 | 4 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0033

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0033 Location: W00223 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080014 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080014 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE COWLEY WYOMING-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.875615/-108.380615 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_140 /1151536 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0033

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/24/76-07/24/76 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/24/76-07/24/76 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/24/76-07/24/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/24/76-07/24/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/24/76-07/24/76 | 1 | 8.32 | 8.32 | 8.32 | 8.32 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0033

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0034

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|-------------------|
| NPS Station ID: BICA0034 | LAT/LON: 44.882504/-108.181392 | Agency: 11EPALES | Date Created: / / |
| Location: YELLOWTAIL RESERVOIR | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /TYPA/AMBNT/LAKE | | STORET Station ID(s): 561401 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 7 | Aquifer: | |
| Major Basin: | Elevation: 0 | Water Body Id: | |
| Minor Basin: | | ECO Region: | |
| RF1 Index: 10080010036 | RF1 Mile Point: 8.730 | Distance from RF1: 0.00 | On/Off RF1: OFF |
| RF3 Index: 10080010003401.09 | RF3 Mile Point: 1.08 | Distance from RF3: 0.02 | On/Off RF3: |
| Description: | | | |
| S END JUST BEFORE FIRST SET OF NARROWS; 120 DEGREES FR LG HILL (HILL A ON MAP), 1/3 MILE FR HILL; EQUIDISTANT BETWEEN SHORES; 2 MILES N OF BRIDGE. | | | |
| COMMENTS: 5-21 NO ULE, VERY BROWN; 1% LIGHT, 3 IN; SURF SAMPLE ONLY. | | | |
| 8-29 ULE 16; 1% LIGHT, 2.5M; INTEG 14 FT; DEPTH 18 FT. 10-17 ULE 17; WATER VERY TURBID; 1% LIGHT, 2.0M; DEPTH 9 FT. | | | |
| MAP: NATURAL TRAP CAVE QUAD | | | |

Parameter Inventory for Station: BICA0034

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|------|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/75-10/17/75 | 6 | 14.6 | 14.083 | 19.3 | 7.8 | 31.658 | 5.627 | ** | ** | ** | ** |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/21/75-10/17/75 | 6 | 59.5 | 50.833 | 74. | 0. | 699.767 | 26.453 | ** | ** | ** | ** |
| 00077 TRANSPARENCY, SECCHI DISC (INCHES) | 08/29/75-10/17/75 | 2 | 18. | 18. | 24. | 12. | 72. | 8.485 | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/21/75-10/17/75 | 6 | 715. | 664.667 | 759. | 384. | 19909.067 | 141.099 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 05/21/75-10/17/75 | 6 | 8.4 | 8.167 | 9. | 6.6 | 0.823 | 0.907 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 05/21/75-10/17/75 | 6 | 8.525 | 8.408 | 8.7 | 7.7 | 0.148 | 0.385 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 05/21/75-10/17/75 | 6 | 8.507 | 8.232 | 8.7 | 7.7 | 0.186 | 0.431 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/21/75-10/17/75 | 6 | 0.003 | 0.006 | 0.02 | 0.002 | 0. | 0.007 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/21/75-10/17/75 | 7 | 162. | 153. | 186. | 124. | 511.333 | 22.613 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/21/75-10/17/75 | 7 ## | 0.01 | 0.023 | 0.05 | 0.01 | 0. | 0.017 | ** | ** | ** | ** |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/21/75-10/17/75 | 7 | 0.2 | 0.257 | 0.5 | 0.1 | 0.016 | 0.127 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/21/75-10/17/75 | 7 | 0.26 | 0.304 | 0.44 | 0.22 | 0.009 | 0.093 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 08/29/75-10/17/75 | 6 | 0.044 | 0.046 | 0.085 | 0.02 | 0. | 0.022 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/21/75-10/17/75 | 7 | 0.008 | 0.011 | 0.02 | 0.004 | 0. | 0.007 | ** | ** | ** | ** |
| 32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 7.9 | 9.433 | 16.9 | 3.5 | 46.653 | 6.83 | ** | ** | ** | ** |
| 72025 DEPTH OF POND OR RESERVOIR IN FEET | 05/21/75-10/17/75 | 3 | 9. | 11.333 | 18. | 7. | 34.333 | 5.859 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0034

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|--|--|---------------|--|--|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 6 | 0 | 0.00 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| 00400 PH | Fresh Chronic | 9. | 6 | 0 | 0.00 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| | Other-Lo Lim. | 6.5 | 6 | 0 | 0.00 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0034

| Parameter | Std. Type | Std. Value | Total | Exceed | Prop. | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-------|----------|-----------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00630 NITRITE PLUS NITRATE, TOTAL I DET. | Drinking Water | 10. | 7 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0035

NPS Station ID: BICA0035
Location: BIG HORN R AT KANE, WYO
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080010
RF3 Index: 10080014004800.00
Description:

LAT/LON: 44.916670/-108.166671

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.75

Agency: 21MTHDWQ
FIPS State/County: 56003 WYOMING/BIG HORN
STORET Station ID(s): 8399BI01
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 4.10
Distance from RF3: 0.35

Date Created: 12/18/93

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0035

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| ***** No Parameter Data Available for this Station ***** | | | | | | | | | | | | |

Station Inventory for Station: BICA0036

NPS Station ID: BICA0036 LAT/LON: 44.916670/-108.216670

Location: YELLOWTAIL RESERVOIR EAST OF LOVELL WY

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Natural Trap Cave 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_WRDS_5 /42074502:0

Within Park Boundary: Yes

Date Created: 11/01/97

Depth of Water: 0

Elevation: 4400

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0036

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|---------|---------|---------|----------|-----------|-------|--------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12/16/68-12/16/68 | 3 ## | 0. | 0.333 | 1. | 0. | 0.333 | 0.577 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 12/16/68-04/15/69 | 4 | 9.55 | 9.5 | 10.6 | 8.3 | 1.62 | 1.273 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 12/16/68-10/26/70 | 10 | 8.1 | 8.02 | 8.3 | 7.5 | 0.086 | 0.294 | 7.5 | 7.875 | 8.225 | 8.3 |
| 00400 CONVERTED PH (STANDARD UNITS) | 12/16/68-10/26/70 | 10 | 8.1 | 7.914 | 8.3 | 7.5 | 0.099 | 0.314 | 7.5 | 7.875 | 8.225 | 8.3 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/16/68-10/26/70 | 10 | 0.008 | 0.012 | 0.032 | 0.005 | 0. | 0.01 | 0.005 | 0.006 | 0.015 | 0.032 |
| 00405 CARBON DIOXIDE (MG/L AS CO2) | 12/16/68-07/12/69 | 8 ## | 1. | 1. | 2. | 0. | 1.143 | 1.069 | ** | ** | ** | ** |
| 00411 ALKALINITY,METHYLORANGE MG/L | 12/16/68-10/26/70 | 10 | 162. | 157.2 | 175. | 132. | 214.844 | 14.658 | 132. | 146.25 | 166. | 174.4 |
| 00415 ALKALINITY, PHENOLPHTHALEIN (MG/L) | 12/16/68-10/26/70 | 10 | 1. | 3.6 | 10. | 0. | 18.933 | 4.351 | 0. | 0. | 7.75 | 10. |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 12/16/68-10/26/70 | 8 | 0.04 | 0.063 | 0.18 | 0.03 | 0.003 | 0.054 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 12/16/68-10/26/70 | 8 | 67.2 | 66.063 | 83.5 | 50.4 | 150.846 | 12.282 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/16/68-10/26/70 | 8 | 22.35 | 21.85 | 27.2 | 15. | 19.897 | 4.461 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 12/16/68-10/26/70 | 8 | 75.5 | 78.625 | 118. | 53. | 666.839 | 25.823 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 12/16/68-10/26/70 | 8 | 2.05 | 2.113 | 2.9 | 1.6 | 0.261 | 0.511 | ** | ** | ** | ** |
| 00932 SODIUM, PERCENT | 12/16/68-10/26/70 | 8 | 39. | 39.5 | 45. | 35. | 14.286 | 3.78 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 12/16/68-10/26/70 | 8 | 3. | 3.148 | 4.2 | 2. | 0.639 | 0.799 | ** | ** | ** | ** |
| 00940 CHLORIDE,TOTAL IN WATER MG/L | 12/16/68-10/26/70 | 8 | 11. | 11.5 | 17. | 7. | 19.429 | 4.408 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 12/16/68-10/26/70 | 8 | 255.5 | 263.875 | 382. | 187. | 6238.125 | 78.982 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 12/16/68-10/26/70 | 8 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 12/16/68-10/26/70 | 8 | 185. | 213.75 | 325. | 150. | 3719.643 | 60.989 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0036

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|------|--------|-------|---------|---------|-----------|-----------|------|------|------|------|
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 12/16/68-10/26/70 | 8 ## | 1. | 3.5 | 10. | 0. | 20.286 | 4.504 | ** | ** | ** | ** |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/16/68-10/26/70 | 8 | 20. | 48. | 120. | 12. | 2208. | 46.989 | ** | ** | ** | ** |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 12/16/68-10/26/70 | 8 | 9. | 14.25 | 42. | 0. | 261.071 | 16.158 | ** | ** | ** | ** |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 12/16/68-10/26/70 | 8 | 8. | 5.625 | 12. | 0. | 21.125 | 4.596 | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 12/16/68-10/26/70 | 8 | 35. | 38.75 | 78. | 10. | 597.357 | 24.441 | ** | ** | ** | ** |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/16/68-10/26/70 | 8 | 598. | 599.5 | 800. | 424. | 20856.857 | 144.419 | ** | ** | ** | ** |
| 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 12/16/68-07/12/69 | 6 | 0.11 | 0.11 | 0.23 | 0.01 | 0.007 | 0.086 | ** | ** | ** | ** |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/16/68-10/26/70 | 8 | 0.25 | 0.27 | 0.5 | 0.008 | 0.036 | 0.189 | ** | ** | ** | ** |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 12/16/68-04/15/69 | 4 | 0.002 | 0.002 | 0.003 | 0.001 | 0. | 0.001 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0036

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|--------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | |
| 00400 | PH | Fresh Chronic | 9. | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 10 | 0 | 0.00 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 00940 | CHLORIDE,TOTAL IN WATER | Fresh Acute | 860. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 8 | 4 | 0.50 | 4 | 2 | 0.50 | 2 | 2 | 1.00 | 2 | 0 | 0.00 | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Drinking Water | 1300. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Drinking Water | 5000. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 71851 | NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 71856 | NITRITE NITROGEN, DISSOLVED (AS NO2) | Drinking Water | 3.3 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0037

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0037 Location: W00109 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.921392/-108.060615 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_049 /1151473 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0037

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 1 | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/05/76-08/05/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 1 | 7.73 | 7.73 | 7.73 | 7.73 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0037

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0038

NPS Station ID: BICA0038
 Location: W00250
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 44.922198/-108.137809

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_NURE_046 /1151477
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0038

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 380. | 380. | 380. | 380. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 0.76 | 0.76 | 0.76 | 0.76 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0038

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0039

| | | | |
|------------------------------------------|--------------------------------|-------------------------------------------|------------------------|
| NPS Station ID: BICA0039 | LAT/LON: 44.929726/-108.217698 | Agency: 11NPSWRD | Date Created: 11/15/97 |
| Location: BIGHORN LAKE 50 MILES FROM DAM | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /RESERV/TYPA/AMBNT | | STORET Station ID(s): BICA_SOLT_5 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE STATION IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 50 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0039

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|--------|--------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 45 | 15.5 | 15.676 | 23.9 | 7.8 | 18.391 | 4.289 | 10.22 | 12.35 | 18.9 | 22.2 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 12 | 61.5 | 411.833 | 3350. | 36. | 912504.879 | 955.251 | 36.9 | 40.25 | 198.75 | 2607.5 |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 90 | 62.5 | 58.022 | 100. | 3. | 562.089 | 23.708 | 23.2 | 39. | 78.25 | 85. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 45 | 900. | 862.444 | 1070. | 100. | 31030.253 | 176.154 | 633. | 835. | 957.5 | 1038. |
| 00406 PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 51 | 8.45 | 8.399 | 8.79 | 7.55 | 0.049 | 0.222 | 8.138 | 8.3 | 8.5 | 8.646 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 05/05/68-09/08/70 | 51 | 8.45 | 8.328 | 8.79 | 7.55 | 0.054 | 0.233 | 8.138 | 8.3 | 8.5 | 8.646 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/68-09/08/70 | 51 | 0.004 | 0.005 | 0.028 | 0.002 | 0. | 0.004 | 0.002 | 0.003 | 0.005 | 0.007 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.1 | 0.185 | 1.04 | 0. | 0.043 | 0.207 | 0. | 0.03 | 0.33 | 0.462 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.01 | 0.013 | 0.04 | 0. | 0. | 0.008 | 0.006 | 0.01 | 0.018 | 0.026 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 56 | 0.515 | 0.525 | 1.23 | 0.09 | 0.06 | 0.246 | 0.234 | 0.35 | 0.65 | 0.872 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 53 | 0.09 | 0.119 | 0.72 | 0. | 0.025 | 0.16 | 0. | 0.01 | 0.135 | 0.33 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 16 | 1. | 1.25 | 3. | 0. | 0.467 | 0.683 | 0.7 | 1. | 1.75 | 2.3 |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 15 | 14. | 36. | 299. | 0. | 5658.714 | 75.224 | 0.6 | 1. | 35. | 159.2 |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 16 | 17. | 19.625 | 84. | 0. | 402.917 | 20.073 | 0. | 6.5 | 24. | 49.7 |
| 32238 CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 50 | 9.8 | 14.394 | 48. | 1.2 | 134.845 | 11.612 | 3.5 | 5.3 | 24.2 | 33.95 |
| 74010 IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 13 | 0.13 | 0.135 | 0.29 | 0.01 | 0.008 | 0.087 | 0.018 | 0.055 | 0.2 | 0.27 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0039

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | 50. | 12 | 7 | 0.58 | 3 | 1 | 0.33 | 5 | 3 | 0.60 | 4 | 3 | 0.75 | | | |
| 00406 | PH, FIELD | | | | | | | | | | | | | | | | |
| | Other-Hi Lim. | 9. | 51 | 0 | 0.00 | 16 | 0 | 0.00 | 16 | 0 | 0.00 | 19 | 0 | 0.00 | | | |
| | Fresh Chronic | 6.5 | 51 | 0 | 0.00 | 16 | 0 | 0.00 | 16 | 0 | 0.00 | 19 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 1. | 55 | 0 | 0.00 | 17 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| | Drinking Water | 10. | 56 | 0 | 0.00 | 18 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | 18. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | 1300. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | 120. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Fresh Acute | 5000. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | | | | | | | | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0040

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| NPS Station ID: BICA0040 Location: W00108 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.934198/-108.086393 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_052 /1151472 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

 On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0040

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 1 | 650. | 650. | 650. | 650. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 6.6 | 6.6 | 6.6 | 6.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 6.6 | 6.6 | 6.6 | 6.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/05/76-08/05/76 | 1 | 0.251 | 0.251 | 0.251 | 0.251 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 1 | 7.98 | 7.98 | 7.98 | 7.98 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0040

| Parameter | Std. Type | Std. Value | Total | | | Prop. | | | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|-----------------|-----------|-------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Exceed Standard | Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0041

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| NPS Station ID: BICA0041 Location: W00251 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.935310/-108.138310 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_047 /1151478 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0041

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 900. | 900. | 900. | 900. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 14.7 | 14.7 | 14.7 | 14.7 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0041

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0042

NPS Station ID: BICA0042

Location: BIGHORN LAKE AT WEST END OF THE NARROWS

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIG HORN BIGHORN LAKE AT THE WEST END OF THE NARROWS. SAMPLES FOR THIS ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE

LAT/LON: 44.946587/-108.248892

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_EPA_2E

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0042

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 3 | 0.61 | 0.99 | 2.13 | 0.23 | 1.011 | 1.005 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 6.9 | 17.1 | 41.8 | 2.6 | 462.19 | 21.499 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0043

NPS Station ID: BICA0043
 Location: W00107
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 44.947199/-108.079699

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_NURE_118 /1151512
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0043

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 08/05/76-08/05/76 | 1 | 17.5 | 17.5 | 17.5 | 17.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 08/05/76-08/05/76 | 1 | 2400. | 2400. | 2400. | 2400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 08/05/76-08/05/76 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/05/76-08/05/76 | 1 | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 08/05/76-08/05/76 | 1 | 8.43 | 8.43 | 8.43 | 8.43 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0043

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0044

NPS Station ID: BICA0044 LAT/LON: 44.950004/-108.250005

Location: HORSESHOE RESERVOIR NORTHEAST OF LOVELL WY

Station Type: /RESERV/TYP/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Sykes Spring 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_WRDS_1 /52075702:0

Within Park Boundary: Yes

Date Created: 11/01/97

Depth of Water: 0

Elevation: 3750

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0044

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/13/70-02/13/70 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 02/13/70-02/13/70 | 1 | 5.5 | 5.5 | 5.5 | 5.5 | 0. | 0. | ** | ** | ** | ** |
| 00411 ALKALINITY,METHYLORANGE MG/L | 02/13/70-02/13/70 | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 00415 ALKALINITY, PHENOLPHTHALEIN (MG/L) | 02/13/70-02/13/70 | 1 ## | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 02/13/70-02/13/70 | 1 | 86. | 86. | 86. | 86. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0044

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | -----4/15-6/19----- | -----6/20-8/09----- | -----n/a----- |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------------|---------------------|---------------------|------------------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 1 | 0 | 0.00 | Obs 1 Exceed 0 Prop. 0.00 | Obs Exceed Prop. | Obs Exceed Prop. | Obs Exceed Prop. |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0045

NPS Station ID: BICA0045

Location: YELLOWTAIL RES-HORSESHOE BEND

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI R. MAJOR BASIN

Minor Basin: YELLOWSTONE RIVER BASIN

RF1 Index: 10080010036

RF3 Index: 10080010005200.04

Description:

YELLOWTAIL RESERVOIR BELOW HORSESHOE-BEND MARINA. SAMPLED QUARTERLY (ENDED SPRING OF 1971)

LAT/LON: 44.950004/-108.258337

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 1.530

RF3 Mile Point: 0.04

Agency: 21WYDHSS

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): 00R295

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.25

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: BICA0045

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| ***** No Parameter Data Available for this Station ***** | | | | | | | | | | | | |

Station Inventory for Station: BICA0046

NPS Station ID: BICA0046
 Location: BIG HORN LAKE BLW HORSESHOE BEND
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI R. MAJOR BASIN
 Minor Basin: YELLOWSTONE RIVER BASIN
 RF1 Index: 10080010036
 RF3 Index: 10080014000600.00
 Description:
 BIG HORN LAKE, BELOW HORSESHOE BEND MARING. SAMPLED QUARTERLY

LAT/LON: 44.950004/-108.258337

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 1.530
 RF3 Mile Point: 0.00

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 00R286
 Within Park Boundary: Yes

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.03

On/Off RF1: OFF
 On/Off RF3:

(ENDED SPRING OF 1971)

Parameter Inventory for Station: BICA0046

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|-------|------|
| 01503 ALPHA, DISSOLVED | 12/14/67-05/15/71 | 11 | 1. | 1.836 | 7. | 0.3 | 3.281 | 1.811 | 0.42 | 1. | 2. | 6. |
| 01504 ALPHA, DISSOLVED, COUNTING ERROR | 12/14/67-05/15/71 | 11 | 3. | 3.273 | 12. | 1. | 9.818 | 3.133 | 1. | 1. | 3. | 10.6 |
| 01505 ALPHA, SUSPENDED | 12/14/67-05/15/71 | 12 | 0.9 | 4.05 | 17. | 0.3 | 32.77 | 5.725 | 0.39 | 0.6 | 6.25 | 16.1 |
| 01506 ALPHA, SUSPENDED, COUNTING ERROR | 12/14/67-05/15/71 | 12 | 1.5 | 2.917 | 8. | 1. | 7.356 | 2.712 | 1. | 1. | 4.75 | 8. |
| 01507 ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 12/14/67-10/15/70 | 9 | 4. | 4.111 | 7. | 2. | 3.361 | 1.833 | 2. | 2.5 | 6. | 7. |
| 01508 ALPHA, GROSS IN SEDIMENT, COUNTING ERROR | 12/14/67-10/15/70 | 9 | 5. | 4.556 | 5. | 4. | 0.278 | 0.527 | 4. | 4. | 5. | 5. |
| 03503 BETA, DISSOLVED | 12/14/67-05/15/71 | 14 | 7.5 | 7.571 | 15. | 1. | 16.725 | 4.09 | 1.5 | 4.5 | 11.25 | 13.5 |
| 03504 BETA, DISSOLVED, COUNTING ERROR | 12/14/67-05/15/71 | 14 | 3.5 | 3.929 | 7. | 3. | 1.61 | 1.269 | 3. | 3. | 4.25 | 6.5 |
| 03505 BETA, SUSPENDED | 12/14/67-05/15/71 | 13 | 5. | 21. | 154. | 1. | 1715. | 41.413 | 1.4 | 2.5 | 24. | 106. |
| 03506 BETA, SUSPENDED, COUNTING ERROR | 12/14/67-05/15/71 | 13 | 3. | 12.538 | 115. | 2. | 953.103 | 30.872 | 2. | 3. | 5. | 73.4 |
| 03507 BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS) | 12/14/67-05/15/71 | 11 | 17. | 16.364 | 28. | 2. | 77.255 | 8.789 | 3. | 7. | 23. | 28. |
| 03508 BETA, GROSS IN SEDIMENT, COUNTING ERROR | 12/14/67-05/15/71 | 11 | 11. | 10.818 | 12. | 10. | 0.764 | 0.874 | 10. | 10. | 12. | 12. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0047

| | | | |
|--------------------------------------------|--------------------------------|-------------------------------------------|-------------------|
| NPS Station ID: BICA0047 | LAT/LON: 44.950004/-108.258337 | Agency: 21WYDHSS | Date Created: / / |
| Location: BIG HORN LAKE BLW HORSESHOE BEND | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /TYPA/AMBNT/STREAM | | STORET Station ID(s): 000286 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI R. MAJOR BASIN | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER BASIN | | ECO Region: | |
| RF1 Index: 10080010036 | RF1 Mile Point: 1.530 | Distance from RF1: 0.00 | On/Off RF1: OFF |
| RF3 Index: 10080010007302.75 | RF3 Mile Point: 4.20 | Distance from RF3: 0.01 | On/Off RF3: |
| Description: | | | |
| BIG HORN LAKE, BELOW HORSESHOE BEND MARINA | | | |

Parameter Inventory for Station: BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|-------|--------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 59 | 23. | 3986.356 | 46000. | 1. | 62561101.13 | 7909.558 | 1. | 1. | 3480. | 16000. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 59 | 1.362 | 1.866 | 4.663 | 0. | 2.852 | 1.689 | 0. | 0. | 3.542 | 4.204 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 73.528 | | | | | | | | |
| 31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614) | 06/05/68-09/13/71 | 56 | 20. | 688.518 | 9200. | 1. | 2944775.236 | 1716.035 | 1. | 7.25 | 216.25 | 3480. |
| 31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614) | 06/05/68-09/13/71 | 56 | 1.301 | 1.574 | 3.964 | 0. | 1.304 | 1.142 | 0. | 0.86 | 2.332 | 3.542 |
| 31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614) | GEOMETRIC MEAN = | | | 37.511 | | | | | | | | |
| 31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 06/09/76-06/06/78 | 14 | 7.5 | 33.286 | 170. | 0. | 3335.297 | 57.752 | 0. | 2. | 35. | 151. |
| 31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 06/09/76-06/06/78 | 14 | 0.849 | 0.891 | 2.23 | 0. | 0.578 | 0.76 | 0. | 0.301 | 1.26 | 2.176 |
| 31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | GEOMETRIC MEAN = | | | 7.777 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0047

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C | Other-Hi Lim. | 1000. | 59 | 20 | 0.34 | 26 | 8 | 0.31 | 11 | 5 | 0.45 | 22 | 7 | 0.32 | | | |
| 31615 FECAL COLIFORM, MPN | Other-Hi Lim. | 200. | 56 | 14 | 0.25 | 25 | 7 | 0.28 | 14 | 3 | 0.21 | 17 | 4 | 0.24 | | | |
| 31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH | Other-Hi Lim. | 200. | 14 | 0 | 0.00 | 4 | 0 | 0.00 | 4 | 0 | 0.00 | 6 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1967 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|-------|-------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 12 | 1665. | 6445.833 | 46000. | 15. | 170942621.97 | 13074.503 | 15. | 230. | 8975. | 35500. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 12 | 3.174 | 2.948 | 4.663 | 1.176 | 1.207 | 1.099 | 1.176 | 2.362 | 3.897 | 4.476 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 886.852 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1968 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|--------------|-----------|-------|-------|--------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 15 | 9200. | 10390. | 17200. | 490. | 40377228.571 | 6354.308 | 670. | 3480. | 16000. | 16480. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 15 | 3.964 | 3.832 | 4.236 | 2.69 | 0.283 | 0.532 | 2.815 | 3.542 | 4.204 | 4.217 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 6794.36 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 2 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 2 ## | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 1. | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1972 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|-------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 9 | 4. | 5.444 | 20. | 1. | 38.528 | 6.207 | 1. | 1. | 8. | 20. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 9 | 0.602 | 0.489 | 1.301 | 0. | 0.252 | 0.502 | 0. | 0. | 0.9 | 1.301 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 3.084 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1973 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|-------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 11 | 2. | 27.909 | 172. | 1. | 2837.891 | 53.272 | 1. | 1. | 49. | 151.6 |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 11 | 0.301 | 0.656 | 2.236 | 0. | 0.742 | 0.861 | 0. | 0. | 1.69 | 2.157 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 4.531 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-------|--------|-------|---------|---------|------------|-----------|------|------|-------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 10 ## | 1. | 163.7 | 1600. | 1. | 254733.122 | 504.711 | 1. | 1. | 10.25 | 1442.3 |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 10 ## | 0. | 0.565 | 3.204 | 0. | 1.07 | 1.034 | 0. | 0. | 0.924 | 3.02 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 3.669 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|------|------|-------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 26 | 4.5 | 3483.615 | 16000. | 1. | 33459301.286 | 5784.402 | 1. | 1. | 9200. | 16000. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 26 | 0.651 | 1.609 | 4.204 | 0. | 3.163 | 1.778 | 0. | 0. | 3.964 | 4.204 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 40.605 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|---------------|-----------|------|-------|--------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 11 | 490. | 7629.091 | 46000. | 1. | 203619882.691 | 14269.544 | 1. | 7. | 16000. | 40240. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 11 | 2.69 | 2.468 | 4.663 | 0. | 2.785 | 1.669 | 0. | 0.845 | 4.204 | 4.577 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 293.75 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0047

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|------|------|-------|--------|
| 31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 03/24/67-10/07/74 | 22 | 46.5 | 2759.136 | 16000. | 1. | 27152041.171 | 5210.762 | 1. | 1. | 2670. | 14500. |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 03/24/67-10/07/74 | 22 | 1.603 | 1.87 | 4.204 | 0. | 2.513 | 1.585 | 0. | 0. | 3.421 | 4.155 |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | GEOMETRIC MEAN = | | | 74.208 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BICA0048

NPS Station ID: BICA0048
 Location: W00252
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 44.952504/-108.156893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_NURE_045 /1151479
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0048

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 16.5 | 16.5 | 16.5 | 16.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 1200. | 1200. | 1200. | 1200. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.158 | 0.158 | 0.158 | 0.158 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 16.4 | 16.4 | 16.4 | 16.4 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0048

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0049

NPS Station ID: BICA0049
 Location: YELLOWTAIL RESERVOIR
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010036
 RF3 Index: 10080010103300.00
 Description:
 S END BY BOAT RAMP; 120 DEGREES, 200 YDS FR BOAT RAMP.
 8-29 ULE 16; 1% LIGHT, 2M; INTEG 15 FT; DEPTH 52 FT.
 MAP: SYKES SPRING QUAD

LAT/LON: 44.954726/-108.258893

Depth of Water: 24
 Elevation: 0

RF1 Mile Point: 1.220
 RF3 Mile Point: 0.00

Agency: 11EPALES
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 561402
 Within Park Boundary: Yes

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1: OFF
 On/Off RF3:

COMMENTS: 5-22 ULE 21; 1% LIGHT, 2.5 FT; INTEG 15 FT.
 10-17 ULE 10; 1% LIGHT, 5.0M; INTEG 15 FT; DEPTH 23 FT.

Parameter Inventory for Station: BICA0049

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 12 | 13.8 | 13.892 | 20.2 | 7.6 | 27.341 | 5.229 | 7.63 | 7.95 | 19.825 | 20.2 |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 12 | 72. | 55.417 | 101. | 0. | 1876.629 | 43.32 | 0.3 | 5.5 | 101. | 101. |
| 00077 TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 3 | 24. | 39. | 84. | 9. | 1575. | 39.686 | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 12 | 572. | 579.583 | 729. | 413. | 15719.356 | 125.377 | 414.2 | 445.5 | 725. | 728.4 |
| 00300 OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 12 | 8.4 | 8.217 | 8.8 | 6.4 | 0.483 | 0.695 | 6.76 | 7.85 | 8.75 | 8.8 |
| 00400 PH (STANDARD UNITS) | 05/22/75-10/17/75 | 12 | 8.375 | 8.304 | 8.65 | 8. | 0.06 | 0.244 | 8. | 8. | 8.488 | 8.635 |
| 00400 CONVERTED PH (STANDARD UNITS) | 05/22/75-10/17/75 | 12 | 8.374 | 8.241 | 8.65 | 8. | 0.064 | 0.253 | 8. | 8. | 8.487 | 8.635 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/22/75-10/17/75 | 12 | 0.004 | 0.006 | 0.01 | 0.002 | 0. | 0.003 | 0.002 | 0.003 | 0.01 | 0.01 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/22/75-10/17/75 | 13 | 136. | 144.615 | 175. | 123. | 339.423 | 18.423 | 123.8 | 126. | 159.5 | 172.2 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 13 | 0.04 | 0.053 | 0.09 | 0.02 | 0.001 | 0.03 | 0.02 | 0.02 | 0.085 | 0.09 |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 13 | 0.4 | 0.423 | 1.2 | 0.1 | 0.08 | 0.283 | 0.14 | 0.2 | 0.55 | 0.96 |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 13 | 0.26 | 0.345 | 0.83 | 0.08 | 0.044 | 0.209 | 0.08 | 0.215 | 0.49 | 0.706 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 13 | 0.061 | 0.157 | 0.95 | 0.026 | 0.063 | 0.25 | 0.027 | 0.038 | 0.201 | 0.669 |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 13 | 0.017 | 0.02 | 0.045 | 0.006 | 0. | 0.013 | 0.006 | 0.01 | 0.033 | 0.043 |
| 32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 3 | 6.9 | 17.1 | 41.8 | 2.6 | 462.19 | 21.499 | ** | ** | ** | ** |
| 72025 DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 3 | 24. | 33. | 52. | 23. | 271. | 16.462 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0049

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|--|--|---------------|--|--|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 12 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| 00400 PH | Fresh Chronic | 9. | 12 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| | Other-Lo Lim. | 6.5 | 12 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | | | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 5 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0050

NPS Station ID: BICA0050
 Location: BIGHORN LAKE AT HORSESHOE BEND
 Station Type: /RESERV/TYP/AMBNT
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 44.956226/-108.259588

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_CSU_HORSHO
 Within Park Boundary: Yes

Date Created: 12/20/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE IN THE HORSESHOE BEND AREA. SAMPLES FOR THIS SITE WERE COLLECTED FROM JUNE 1980 TO NOVEMBER 1980. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0050

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|-------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/09/80-11/26/80 | 9 | 18. | 17.722 | 23. | 4. | 40.444 | 6.36 | 4. | 14.5 | 23. | 23. |
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 06/09/80-11/26/80 | 9 | 0.53 | 0.673 | 1.5 | 0.3 | 0.153 | 0.392 | 0.3 | 0.35 | 0.915 | 1.5 |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/09/80-11/26/80 | 7 | 682. | 654.714 | 755. | 490. | 10135.571 | 100.676 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/09/80-11/26/80 | 8 | 8. | 8.025 | 8.3 | 7.7 | 0.034 | 0.183 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/09/80-11/26/80 | 8 | 8. | 7.99 | 8.3 | 7.7 | 0.035 | 0.187 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/09/80-11/26/80 | 8 | 0.01 | 0.01 | 0.02 | 0.005 | 0. | 0.005 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 06/09/80-07/23/80 | 3 | 170. | 170.333 | 186. | 155. | 240.333 | 15.503 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 4 | 0.019 | 0.035 | 0.097 | 0.005 | 0.002 | 0.042 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/09/80-08/06/80 | 4 | 0.195 | 0.293 | 0.63 | 0.15 | 0.051 | 0.226 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/09/80-08/06/80 | 4 | 0.075 | 0.11 | 0.24 | 0.05 | 0.008 | 0.088 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 06/09/80-11/26/80 | 9 | 0.005 | 0.011 | 0.06 | 0.002 | 0. | 0.019 | 0.002 | 0.003 | 0.009 | 0.06 |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 06/09/80-11/26/80 | 9 | 13. | 21.222 | 69. | 2. | 459.444 | 21.435 | 2. | 7. | 34. | 69. |
| 82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 06/09/80-11/26/80 | 8 | 8.5 | 8.75 | 17. | 3. | 22.214 | 4.713 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0050

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 4 | 0 | 0.00 | | | | 1 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 82079 | TURBIDITY, LAB | Other-Hi Lim. | 50. | 8 | 0 | 0.00 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0051

NPS Station ID: BICA0051 LAT/LON: 44.957226/-108.260698

Location: BIGHORN LAKE AT HORSESHOE BEND BOAT DOCK

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 LAKE AT THE HORSESHOE BEND BOAT DOCK. THE BOAT DOCK IS LOCATED FOR THIS SITE WERE COLLECTED FROM 1974 TO 1995 BY THE STAFF AT BIGHORN CANYON NATIONAL RECREATION AREA. SAMPLES WERE ANALYZED FOR TOTAL COLIFORM AND FECAL COLIFORM. THE RESULTS WERE OBTAINED RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_NPS_HSB_BD

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 01/31/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|------|-------|------|-------|
| 31506 COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 7 | 20. | 120.286 | 309. | 0. | 21520.905 | 146.7 | ** | ** | ** | ** |
| 31506 LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 7 | 1.301 | 1.27 | 2.49 | 0. | 1.37 | 1.171 | ** | ** | ** | ** |
| 31506 GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | GEOMETRIC MEAN = | | | 18.642 | | | | | | | | |
| 31614 FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 137 | 8. | 252.204 | 16000. | 0. | 1975564.708 | 1405.548 | 1. | 2. | 49. | 341. |
| 31614 LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 137 | 0.903 | 1.128 | 4.204 | 0. | 0.909 | 0.954 | 0. | 0.301 | 1.69 | 2.533 |
| 31614 GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 13.437 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0051

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 31506 COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C | Other-Hi Lim. | 1000. | 7 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 5 | 0 | 0.00 | | | |
| 31614 FECAL COLIFORM, MPN, TUBE CONFIGURATION | Other-Hi Lim. | 200. | 137 | 16 | 0.12 | 79 | 7 | 0.09 | 30 | 7 | 0.23 | 28 | 2 | 0.07 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1974 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 7 | 2. | 5.143 | 23. | 1. | 65.143 | 8.071 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 7 | 0.301 | 0.392 | 1.362 | 0. | 0.261 | 0.511 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 2.464 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 5 | 4. | 3.2 | 5. | 1. | 4.2 | 2.049 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 5 | 0.602 | 0.4 | 0.699 | 0. | 0.135 | 0.367 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 2.512 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1976 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 1 | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 1 | 1.699 | 1.699 | 1.699 | 0. | 0. | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 50 | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 3 | 1. | 27.667 | 82. | 0. | 2214.333 | 47.057 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 3 | 0. | 0.638 | 1.914 | 0. | 1.221 | 1.105 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 4.344 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 9 | 5. | 18.333 | 109. | 0. | 1225.75 | 35.011 | 0. | 0.5 | 20. | 109. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 9 | 0.699 | 0.742 | 2.037 | 0. | 0.496 | 0.704 | 0. | 0. | 1.281 | 2.037 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 5.52 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|--------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 16 | 39.5 | 282.313 | 1700. | 2. | 290662.896 | 539.132 | 2. | 21.25 | 276.75 | 1560. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 16 | 1.597 | 1.722 | 3.23 | 0.301 | 0.733 | 0.856 | 0.301 | 1.327 | 2.368 | 3.192 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 52.736 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 9 | 40. | 279.667 | 1300. | 1. | 210652.25 | 458.969 | 1. | 12.5 | 505. | 1300. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 9 | 1.602 | 1.683 | 3.114 | 0. | 1.119 | 1.058 | 0. | 0.831 | 2.613 | 3.114 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 48.19 | | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 22 | 2. | 152.636 | 1600. | 2. | 219572.909 | 468.586 | 2. | 2. | 17. | 1132. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 22 | 0.301 | 0.85 | 3.204 | 0.301 | 0.77 | 0.877 | 0.301 | 0.301 | 1.223 | 2.724 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 7.079 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 22 | 5.5 | 112.182 | 1600. | 2. | 114518.346 | 338.406 | 2. | 2. | 76.75 | 201. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 22 | 0.739 | 1.1 | 3.204 | 0.301 | 0.792 | 0.89 | 0.301 | 0.301 | 1.885 | 2.302 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 12.6 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|--------------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 21 | 11. | 875.286 | 16000. | 2. | 12131832.614 | 3483.078 | 2. | 2. | 78. | 1348. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 21 | 1.041 | 1.241 | 4.204 | 0.301 | 1.149 | 1.072 | 0.301 | 0.301 | 1.764 | 3.07 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 17.404 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0051

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 15 | 49. | 183.4 | 1600. | 2. | 163079.543 | 403.831 | 2. | 5. | 172. | 847. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 15 | 1.69 | 1.529 | 3.204 | 0.301 | 0.814 | 0.902 | 0.301 | 0.699 | 2.236 | 2.804 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 33.839 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|-------------------------------------------|------------------------|--------|-------|---------|---------|----------|-----------|--------|------|------|------|----|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 2## | 17. | 17. | 33. | 1. | 512. | 22.627 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 2## | 0.759 | 0.759 | 1.519 | 0. | 1.153 | 1.074 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = 5.745 | | | | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|-------|------|------|------|----|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 4 ## | 1. | 5. | 17. | 1. | 64. | 8. | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 4 ## | 0. | 0.308 | 1.23 | 0. | 0.379 | 0.615 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 2.031 | | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 1 | 156. | 156. | 156. | 0. | 0. | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 1 | 2.193 | 2.193 | 2.193 | 0. | 0. | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 156. | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-------------|----------|------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 79 | 5. | 294.076 | 16000. | 0. | 3301178.866 | 1816.915 | 1. | 2. | 175. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 79 | 0.699 | 0.975 | 4.204 | 0. | 0.812 | 0.901 | 0. | 0.301 | 2.243 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 9.45 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|--------|---------|---------|----------|------------|---------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 30 | 80.5 | 326.367 | 1600. | 1. | 314666.378 | 560.951 | 5.2 | 16.25 | 1600. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 30 | 1.906 | 1.844 | 3.204 | 0. | 0.741 | 0.861 | 0.714 | 1.209 | 3.204 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 69.842 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0051

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|---------|------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 28 | 2. | 54.607 | 800. | 0. | 24546.914 | 156.675 | 1. | 2. | 183. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 07/08/74-07/10/90 | 28 | 0.301 | 0.793 | 2.903 | 0. | 0.686 | 0.828 | 0. | 0.301 | 2.262 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 6.204 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BICA0052

| | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|--------|-------------------------------------------|---------|------------------------|----------|-----------|------|------|------|------|
| NPS Station ID: BICA0052 | | LAT/LON: 44.957254/-108.260726 | | Agency: 11NPSWRD | | Date Created: 02/21/98 | | | | | | |
| Location: BIGHORN LAKE AT HORSESHOE BEND | | | | FIPS State/County: 56003 WYOMING/BIG HORN | | | | | | | | |
| Station Type: /RESERV/TYPA/AMBNT | | | | STORET Station ID(s): BICA_NPS_HB | | | | | | | | |
| RMI-Indexes: | | | | Within Park Boundary: Yes | | | | | | | | |
| RMI-Miles: | | | | | | | | | | | | |
| HUC: 10080010 | | Depth of Water: 0 | | Aquifer: | | | | | | | | |
| Major Basin: MISSOURI RIVER | | Elevation: 0 | | Water Body Id: | | | | | | | | |
| Minor Basin: YELLOWSTONE RIVER | | | | ECO Region: | | | | | | | | |
| RF1 Index: 10080010 | | RF1 Mile Point: 0.000 | | Distance from RF1: 4.10 | | On/Off RF1: | | | | | | |
| RF3 Index: 10080014004800.00 | | RF3 Mile Point: 0.75 | | Distance from RF3: 0.35 | | On/Off RF3: | | | | | | |
| Description: | | | | | | | | | | | | |
| THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT HORSESHOE BEND. TEMPERATURE WAS THE ONLY PARAMETER THAT WAS MEASURED. SOMETIMES THE TEMPERATURE WAS MEASURED AT THE SWIM BEACH; AND SOMETIMES THE TEMPERATURE WAS MEASURED AT THE BOAT DOCK. THE BOAT DOCK WAS THE SITE DIGITIZED FOR THE LAT/LONG COORDINATES. THE BOAT DOCK IS LOCATED AT THE END OF THE ROAD THAT GOES TO HORSESHOE BEND. THE SWIM BEACH AREA IS JUST SOUTH OF THE PARKING AREA CLOSEST TO HORSESHOE BEND. TEMPERATURE WAS MEASURED IN 1987 AND 1988. THE RESULTS WERE OBTAINED FROM THE NATURAL RESOURCES DEPARTMENT AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516. | | | | | | | | | | | | |
| Parameter Inventory for Station: BICA0052 | | | | | | | | | | | | |
| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/02/87-11/15/88 | 185 | 62. | 60.251 | 82.5 | 32.5 | 162.633 | 12.753 | 43. | 50. | 70.5 | 76.4 |
| ** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot | | | | | | | | | | | | |
| ***** No EPA Water Quality Criteria exist to compare against the data at this station. ***** | | | | | | | | | | | | |

Station Inventory for Station: BICA0053

NPS Station ID: BICA0053
 Location: BIGHORN LAKE AT HORSESHOE BEND SWIM BEACH
 Station Type: /RESERV/TYPA/AMBNT
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 44.957809/-108.263698
 Depth of Water: 0
 Elevation: 0
 RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_NPS_HSB_SB
 Within Park Boundary: Yes

Date Created: 01/31/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE HORSESHOE BEND SWIM BEACH AREA. THE SWIM BEACH AREA IS LOCATED JUST SOUTH OF THE PARKING AREA THAT IS CLOSEST TO HORSESHOE BEND. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1974 TO 1995 BY THE STAFF AT BIGHORN CANYON NATIONAL RECREATION AREA. SAMPLES WERE ANALYZED FOR TOTAL COLIFORM AND FECAL COLIFORM. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 31506 COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 24 | 101.5 | 349.667 | 3000. | 0. | 431392.493 | 656.805 | 0. | 0.75 | 468.25 | 1061. |
| 31506 LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 24 | 2.005 | 1.651 | 3.477 | 0. | 1.406 | 1.186 | 0. | 0.119 | 2.667 | 2.984 |
| 31506 GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | GEOMETRIC MEAN = | | | 44.806 | | | | | | | | |
| 31614 FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 136 | 11. | 217.912 | 16000. | 0. | 1924157.474 | 1387.14 | 2. | 2. | 44.5 | 300.2 |
| 31614 LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 136 | 1.041 | 1.167 | 4.204 | 0. | 0.791 | 0.889 | 0.301 | 0.301 | 1.648 | 2.475 |
| 31614 GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 14.699 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0053

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | Prop. | -----4/15-6/19----- | | Prop. | -----6/20-8/09----- | | Prop. | -----n/a----- | | |
|------------------------------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | | Obs | Exceed | | Obs | Exceed | | Obs | Exceed | Prop. |
| 31506 COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C | Other-Hi Lim. | 1000. | 24 | 2 | 0.08 | 9 | 2 | 0.22 | 3 | 0 | 0.00 | 12 | 0 | 0.00 | | | |
| 31614 FECAL COLIFORM, MPN, TUBE CONFIGURATION | Other-Hi Lim. | 200. | 136 | 20 | 0.15 | 76 | 8 | 0.11 | 28 | 7 | 0.25 | 32 | 5 | 0.16 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1971 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 1 | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 1 | 1.322 | 1.322 | 1.322 | 0. | 0. | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 1 | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 7 | 5. | 10.429 | 46. | 261.286 | 16.164 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 7 | 0.699 | 1.663 | 0. | 0.417 | 0.646 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 7 | 4.123 | 4.123 | 4.123 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 1 | 79. | 79. | 79. | 0. | 0. | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 1 | 1.898 | 1.898 | 1.898 | 0. | 0. | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 1 | 79. | 79. | 79. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1976 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 5 | 3. | 18.6 | 60. | 694.8 | 26.359 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 5 | 0.477 | 0.746 | 1.778 | 0.696 | 0.834 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 5 | 5.578 | 5.578 | 5.578 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 3 | 0. | 3.333 | 10. | 33.333 | 5.774 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 3 | 0. | 0.333 | 1. | 0.333 | 0.577 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 3 | 2.154 | 2.154 | 2.154 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|--------|--------|---------|---------|-----------|-----------|------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 9 | 5. | 85.444 | 542. | 32322.528 | 179.785 | 0. | 2. | 96.5 | 542. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 9 | 0.699 | 1.057 | 2.734 | 0.89 | 0.943 | 0. | 0.301 | 1.779 | 2.734 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 9 | 11.414 | 11.414 | 11.414 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 14 | 26.5 | 233.429 | 920. | 2. | 124968.264 | 353.509 | 3.5 | 17. | 600. | 910. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 14 | 1.417 | 1.687 | 2.964 | 0.301 | 0.752 | 0.867 | 0.5 | 1.202 | 2.778 | 2.959 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 48.596 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|-------|------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 13 | 20. | 119.385 | 800. | 1. | 50890.756 | 225.59 | 1.4 | 5.5 | 117. | 618. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 13 | 1.301 | 1.393 | 2.903 | 0. | 0.765 | 0.874 | 0.12 | 0.724 | 2.06 | 2.757 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 24.698 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|------------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 21 | 2. | 92.476 | 1600. | 2. | 121532.162 | 348.615 | 2. | 2. | 13. | 180.8 |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 21 | 0.301 | 0.828 | 3.204 | 0.301 | 0.583 | 0.764 | 0.301 | 0.301 | 1.113 | 2.136 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 6.734 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 22 | 7.5 | 88.409 | 920. | 2. | 43786.539 | 209.252 | 2. | 2. | 42.25 | 325.8 |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 22 | 0.874 | 1.063 | 2.964 | 0.301 | 0.739 | 0.859 | 0.301 | 0.301 | 1.6 | 2.511 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 11.565 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|---------|---------|---------|--------------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 19 | 11. | 963.105 | 16000. | 2. | 13391596.099 | 3659.453 | 2. | 2. | 175. | 1600. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 19 | 1.041 | 1.299 | 4.204 | 0.301 | 1.213 | 1.101 | 0.301 | 0.301 | 2.243 | 3.204 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 19.92 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 15 | 26. | 83.467 | 345. | 2. | 12429.695 | 111.489 | 2. | 6. | 130. | 304.8 |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 15 | 1.415 | 1.435 | 2.538 | 0.301 | 0.594 | 0.771 | 0.301 | 0.778 | 2.114 | 2.482 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 27.214 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 4 | 23. | 24. | 49. | 1. | 388. | 19.698 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 4 | 1.36 | 1.103 | 1.69 | 0. | 0.565 | 0.752 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 12.665 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BICA0053

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 2 | 118.5 | 118.5 | 201. | 36. | 13612.5 | 116.673 | ** | ** | ** | ** |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 2 | 1.93 | 1.93 | 2.303 | 1.556 | 0.279 | 0.528 | ** | ** | ** | ** |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | | 85.065 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|----------------------------------------------------|-------------------|--------|--------|---------|---------|----------|------------|----------|-------|-------|--------|-------|
| 31506 | COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 9 | 287. | 625. | 3000. | 0. | 1021616.5 | 1010.75 | 0. | 5.5 | 1002.5 | 3000. |
| 31506 | LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 9 | 2.458 | 1.85 | 3.477 | 0. | 1.709 | 1.307 | 0. | 0.521 | 2.938 | 3.477 |
| 31506 | GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | GEOMETRIC MEAN = | | 70.861 | | | | | | | | | |
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 76 | 9. | 295.013 | 16000. | 0. | 3396300.52 | 1842.905 | 2. | 2. | 23.25 | 302.6 |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 76 | 0.954 | 1.047 | 4.204 | 0. | 0.757 | 0.87 | 0.301 | 0.301 | 1.366 | 2.431 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 11.13 | | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|----------------------------------------------------|-------------------|--------|--------|---------|---------|----------|-----------|---------|-------|-------|-------|-------|
| 31506 | COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 3 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** | |
| 31506 | LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 3 | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** | |
| 31506 | GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | GEOMETRIC MEAN = | | 1. | | | | | | | | | |
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 28 | 33.5 | 147.929 | 1600. | 0. | 91945.698 | 303.225 | 2. | 11.25 | 209.5 | 287.4 |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 28 | 1.525 | 1.583 | 3.204 | 0. | 0.666 | 0.816 | 0.301 | 1.051 | 2.319 | 2.458 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 38.289 | | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0053

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|----------------------------------------------------|-------------------|--------|--------|---------|---------|----------|-----------|---------|-------|-------|--------|-------|
| 31506 | COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 12 | 141. | 230.583 | 617. | 0. | 48168.083 | 219.472 | 0.9 | 30.75 | 468.25 | 581.9 |
| 31506 | LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | 07/20/89-09/06/95 | 12 | 2.138 | 1.915 | 2.79 | 0. | 0.845 | 0.919 | 0.143 | 1.294 | 2.667 | 2.763 |
| 31506 | GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG. | GEOMETRIC MEAN = | | 82.197 | | | | | | | | | |
| 31614 | FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 32 | 9. | 96.031 | 920. | 0. | 48125.967 | 219.376 | 0.3 | 2. | 57.25 | 345. |
| 31614 | LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION | 09/08/71-07/18/90 | 32 | 0.952 | 1.09 | 2.964 | 0. | 0.835 | 0.914 | 0. | 0.301 | 1.756 | 2.538 |
| 31614 | GM FECAL COLIFORM,MPN,TUBE CONFIGURATION | GEOMETRIC MEAN = | | 12.314 | | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: BICA0054

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0054 Location: W00253 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.960309/-108.126892 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_043 /1151480 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0054

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 900. | 900. | 900. | 900. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.126 | 0.126 | 0.126 | 0.126 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 7.19 | 7.19 | 7.19 | 7.19 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0054

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0055

NPS Station ID: BICA0055
 Location: YELLOWTAIL RESERVOIR-HORSESHOE BEND
 Station Type: /RESERV/TYPA/AMBNT
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010007
 RF3 Index: 10080014033600.00
 Description:

LAT/LON: 44.960837/-108.260837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 1.940
 RF3 Mile Point: 9.77

Agency: 21WYDHSS
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 090303-2
 Within Park Boundary: Yes

Date Created: 11/03/84

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.60
 Distance from RF3: 0.33

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0055

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------------|-------------------|-------|--------|---------|---------|---------|-----------|-----------|--------|------|------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/13/84-08/07/85 | 6 | 24. | 23.167 | 25. | 19. | 5.367 | 2.317 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/13/84-08/07/85 | 6 | 8.45 | 8.533 | 9. | 8.39 | 0.055 | 0.235 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/13/84-08/07/85 | 6 | 8.447 | 8.493 | 9. | 8.39 | 0.057 | 0.239 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/13/84-08/07/85 | 6 | 0.004 | 0.003 | 0.004 | 0.001 | 0. | 0.001 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 06/13/84-08/07/85 | 6 | 0.535 | 0.533 | 0.97 | 0.14 | 0.08 | 0.282 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/13/84-08/07/85 | 6 | 0.111 | 0.18 | 0.64 | 0.03 | 0.053 | 0.229 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 06/13/84-08/07/85 | 6 | 266. | 280.667 | 391. | 168. | 6618.667 | 81.355 | ** | ** | ** | ** |
| 00951 FLUORIDE, TOTAL (MG/L AS F) | 06/13/84-08/07/85 | 6 | 0.41 | 0.452 | 0.64 | 0.32 | 0.019 | 0.137 | ** | ** | ** | ** |
| 31613 FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 06/13/84-08/25/88 | 11 ## | 2. | 126.909 | 1000. | 0.5 | 95989.441 | 309.822 | 0.5 | 1. | 10. | 874. |
| 31613 LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24 | 06/13/84-08/25/88 | 11 ## | 0.301 | 0.695 | 3. | -0.301 | 1.252 | 1.119 | -0.301 | 0. | 1. | 2.914 |
| 31613 GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H | GEOMETRIC MEAN = | | | 4.957 | | | | | | | | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0055

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|---------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|---|------|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 6 | 1 | 0.17 | | | | 2 | 0 | 0.00 | 4 | 1 | 0.25 | | | |
| | Other-Lo Lim. | 6.5 | 6 | 0 | 0.00 | | | | 2 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 6 | 0 | 0.00 | | | | 2 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 00951 FLUORIDE, TOTAL AS F | Drinking Water | 4. | 6 | 0 | 0.00 | | | | 2 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR | Other-Hi Lim. | 200. | 11 | 2 | 0.18 | 1 | 0 | 0.00 | 4 | 1 | 0.25 | 6 | 1 | 0.17 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0056

NPS Station ID: BICA0056
Location: CROOKED CREEK
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: T/YELLOWTAIL RESERVOIR
Minor Basin: BNK 200 FT DSTRM FRM MOUTH BIG COULEE RV
RF1 Index: 10080010042
RF3 Index: 10080010001900.00
Description:
BANK SAMPLE 150 FT FROM HWY 200 FT DOWNSTREAM FROM MOUTH OF BIG COULEE RIVER SEC 35 T58N R95W

LAT/LON: 44.963309/-108.280698

Agency: 11EPALES
FIPS State/County: 56000 WYOMING/
STORET Station ID(s): 5614E1
Within Park Boundary: Yes

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.01

Date Created: / /

On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: BICA0056

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|-------|-------|-------|-------|
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/10/74-09/10/75 | 14 | 0.025 | 0.037 | 0.165 | 0.01 | 0.001 | 0.039 | 0.013 | 0.015 | 0.041 | 0.108 |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 11/10/74-11/10/74 | 1 | 0.4 | 0.4 | 0.4 | 0.4 | 0. | 0. | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/10/74-09/10/75 | 13 | 0.55 | 0.731 | 2.7 | 0.2 | 0.401 | 0.633 | 0.22 | 0.375 | 0.8 | 1.98 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/10/74-09/10/75 | 14 | 0.375 | 0.364 | 0.61 | 0.16 | 0.022 | 0.149 | 0.175 | 0.218 | 0.498 | 0.57 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 11/10/74-09/10/75 | 13 | 0.05 | 0.1 | 0.37 | 0.02 | 0.012 | 0.111 | 0.022 | 0.03 | 0.13 | 0.342 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 11/10/74-09/10/75 | 14 | 0.007 | 0.007 | 0.015 | 0.003 | 0. | 0.005 | 0.003 | 0.003 | 0.01 | 0.015 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0056

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 14 | 0 | 0.00 | 7 | 0 | 0.00 | 4 | 0 | 0.00 | 3 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0057

NPS Station ID: BICA0057 LAT/LON: 44.966670/-108.283338

Location: TILLET'S POND NORTHEAST OF LOVELL WY

Station Type: /TYP/A/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Sykes Spring 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_WRDS_2 /52076002:0

Within Park Boundary: Yes

Date Created: 11/01/97

Depth of Water: 0

Elevation: 3800

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0057

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/56-07/15/56 | 1 | 1110. | 1110. | 1110. | 1110. | 0. | 0. | ** | ** | ** | ** |
| 00411 ALKALINITY,METHYLORANGE MG/L | 07/15/56-07/15/56 | 1 | 178. | 178. | 178. | 178. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/56-07/15/56 | 1 | 179.6 | 179.6 | 179.6 | 179.6 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/56-07/15/56 | 1 | 43.7 | 43.7 | 43.7 | 43.7 | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 07/15/56-07/15/56 | 1 | 616. | 616. | 616. | 616. | 0. | 0. | ** | ** | ** | ** |
| 70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 07/15/56-07/15/56 | 1 | 908. | 908. | 908. | 908. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0057

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 1 | 1.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | | | | | | | 1 | 1 | 1.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0058

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0058 Location: W00258 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 44.966698/-108.119392 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 56003 WYOMING/BIG HORN STORET Station ID(s): BICA_NURE_051 /1151482 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

 On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0058

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 1500. | 1500. | 1500. | 1500. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 4.67 | 4.67 | 4.67 | 4.67 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0058

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0059

NPS Station ID: BICA0059
 Location: BIG COULEE NEAR LOVELL, WYO.
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes: 1021500 009490 36810 4430 5260 6500
 RMI-Miles: 1149.40 1582.00 279.40 123.00 001.00 000.60
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010034
 RF3 Index: 10080010070100.00
 Description:

LAT/LON: 44.975281/-108.297226

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 2.120
 RF3 Mile Point: 1.60

Agency: 112WRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 06286258
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.18

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0059

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|-----------|---------|-------------------|----------------|-----------|-------|--------|---------|---------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/22/70-06/10/77 | 16 | 14. | 14.438 | 26. | 0. | 39.163 | 6.258 | 2.1 | 13.5 | 18.625 | 22.85 |
| 00060 FLOW, STREAM, MEAN DAILY CFS | 07/22/70-09/08/73 | 9 | 4. | 64.544 | 489. | 0.2 | 25602.058 | 160.006 | 0.2 | 0.35 | 39.5 | 489. |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 07/20/74-06/10/77 | 8 | 34.5 | 72.225 | 370. | 0.8 | 15028.862 | 122.592 | ** | ** | ** | ** |
| 70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM | 07/22/70-06/10/77 | 17 | 44. | 41.412 | 77. | 15. | 291.632 | 17.077 | 17.4 | 28. | 51. | 66.6 |
| 70340 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM | 07/22/70-06/10/77 | 17 | 82. | 75. | 99. | 36. | 423.5 | 20.579 | 38.4 | 60.5 | 90.5 | 99. |
| 70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM | 07/22/70-06/10/77 | 17 | 98. | 95.059 | 100. | 78. | 43.809 | 6.619 | 81.2 | 91. | 99.5 | 100. |
| 70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM | 03/09/71-06/10/77 | 13 | 100. | 98.692 | 100. | 94. | 3.731 | 1.932 | 94.8 | 97.5 | 100. | 100. |
| 70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM | 03/09/71-06/10/77 | 6 | 100. | 99.833 | 100. | 99. | 0.167 | 0.408 | ** | ** | ** | ** |
| 70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM | 07/28/73-07/28/73 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 07/22/70-06/10/77 | 17 | 31900. | 49499.412 | 204000. | 3560. | 2290554655.882 | 47859.739 | 6736. | 19750. | 58900. | 117120. |
| 80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY) | 07/22/70-06/10/77 | 17 | 725. | 22281.952 | 269000. | 4.84249506450.013 | 65188.239 | 6.88 | 77.5 | 10525. | 101080. | |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0060

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|------------------------|
| NPS Station ID: BICA0060 | LAT/LON: 44.976392/-108.168116 | Agency: 11NPSWRD | Date Created: 11/08/97 |
| Location: W00257 | | FIPS State/County: 56003 WYOMING/BIG HORN | |
| Station Type: /TYPA/AMBNT/SPRING | | STORET Station ID(s): BICA_NURE_044 /1151481 | |
| RMI-Indexes: | | Within Park Boundary: No | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |
| Description: THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | | | |

Parameter Inventory for Station: BICA0060

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/31/76-07/31/76 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/31/76-07/31/76 | 1 | 850. | 850. | 850. | 850. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/31/76-07/31/76 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/31/76-07/31/76 | 1 | 0.126 | 0.126 | 0.126 | 0.126 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/31/76-07/31/76 | 1 | 4.76 | 4.76 | 4.76 | 4.76 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0060

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0061

NPS Station ID: BICA0061
 Location: TILLET SPRING MARKED AS SYKES SPRING ON TOPO MAP
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:

RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 44.987142/-108.282810

Depth of Water: 0
 Elevation: 3900

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): BICA_BLM_TILL
 Within Park Boundary: No

Date Created: 01/24/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT TILLET SPRING WHICH IS NAMED SYKES SPRING ON THE SYKES SPRING TOPOGRAPHIC MAP. SAMPLES WERE COLLECTED ON MAY 27 1957 AND MAY 14 1970. THE 1957 RESULTS ARE IN A MEMORANDUM FROM DICK FELTIS; HYDROLOGIST WRD BILLINGS MONTANA. THE 1970 RESULTS ARE IN "HYDROLOGIC EVALUATION OF THE PROBABLE EFFECTS OF DRILLING IRRIGATION WELLS IN THE PROXIMITY OF BRITTON SPRING IN THE SOUTHERN PART OF THE PRYOR MOUNTAIN HORSE RANGE IN THE WORLAND DISTRICT; WYOMING" ATTACHED TO A MEMORANDUM TO THE DISTRICT MANAGER; BUREAU OF LAND MANAGEMENT; WORLAND WYOMING FROM H.J. KING; SOIL AND MOISTURE CONSERVATION PROGRAM; USGS-WRD DENVER COLORADO. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0061

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 05/14/70-05/14/70 | 1 | 53. | 53. | 53. | 53. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/27/57-05/14/70 | 2 | 1165. | 1165. | 1200. | 1130. | 2450. | 49.497 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 05/27/57-05/27/57 | 1 | 4.7 | 4.7 | 4.7 | 4.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 05/27/57-05/27/57 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 05/27/57-05/27/57 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/27/57-05/27/57 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 05/27/57-05/27/57 | 1 | 213. | 213. | 213. | 213. | 0. | 0. | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 05/27/57-05/27/57 | 1 | 304. | 304. | 304. | 304. | 0. | 0. | ** | ** | ** | ** |
| 00916 CALCIUM, TOTAL (MG/L AS Ca) | 05/27/57-05/27/57 | 1 | 133.6 | 133.6 | 133.6 | 133.6 | 0. | 0. | ** | ** | ** | ** |
| 00927 MAGNESIUM, TOTAL (MG/L AS MG) | 05/27/57-05/27/57 | 1 | 35.4 | 35.4 | 35.4 | 35.4 | 0. | 0. | ** | ** | ** | ** |
| 00929 SODIUM, TOTAL (MG/L AS Na) | 05/27/57-05/27/57 | 1 | 9.2 | 9.2 | 9.2 | 9.2 | 0. | 0. | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 05/27/57-05/27/57 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00937 POTASSIUM, TOTAL MG/L AS K) | 05/27/57-05/27/57 | 1 | 1.3 | 1.3 | 1.3 | 1.3 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 05/27/57-05/27/57 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 05/27/57-05/27/57 | 1 | 527. | 527. | 527. | 527. | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS CU) | 05/27/57-05/27/57 | 1 ## | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 05/27/57-05/27/57 | 1 ## | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01062 MOLYBDENUM, TOTAL (UG/L AS MO) | 05/27/57-05/27/57 | 1 ## | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 05/27/57-05/27/57 | 1 | 252. | 252. | 252. | 252. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0061

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01105 ALUMINUM, TOTAL (UG/L AS AL) | 05/27/57-05/27/57 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01132 LITHIUM, TOTAL (UG/L AS LI) | 05/27/57-05/27/57 | 1 | 1700. | 1700. | 1700. | 1700. | 0. | 0. | ** | ** | ** | ** |
| 46570 HARDNESS, CA MG CALCULATED (MG/L AS CaCO3) | 05/27/57-05/27/57 | 1 | 479. | 479. | 479. | 479. | 0. | 0. | ** | ** | ** | ** |
| 70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 05/27/57-05/27/57 | 1 | 868. | 868. | 868. | 868. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0061

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00940 CHLORIDE,TOTAL IN WATER | Fresh Acute | 860. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 1 | 1.00 | | | | 1 | 1 | 1.00 | | | | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | 1 | 1 | 1.00 | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0062

NPS Station ID: BICA0062 LAT/LON: 44.989531/-108.281838

Location: LITTLE SYKES SPRING 400 YD NORTH OF SYKES SPRING

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT LITTLE SYKES SPRING WHICH IS 400 YARDS NORTH OF SYKES SPRING NEAR THE EAST MARGIN OF THE HORSE RANGE. SAMPLES FROM THIS SITE WERE COLLECTED ON MAY 14 1970. THE RESULTS WERE PUBLISHED IN "HYDROLOGIC EVALUATION OF THE PROBABLE EFFECTS OF DRILLING IRRIGATION WELLS IN THE PROXIMITY OF BRITTON SPRING IN THE SOUTHERN PART OF THE PRYOR MOUNTAIN HORSE RANGE IN THE WORLAND DISTRICT, WYOMING" ATTACHED TO A MEMORANDUM TO THE DISTRICT MANAGER; BUREAU OF LAND MANAGEMENT; WORLAND WYOMING FROM H. J. KING; SOIL AND MOISTURE CONSERVATION PROGRAM; USGS-WRD DENVER COLORADO. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_BLM_LITTLE

Within Park Boundary: No

Date Created: 01/24/98

Depth of Water: 0

Elevation: 3960

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0062

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 05/14/70-05/14/70 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/14/70-05/14/70 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0063

NPS Station ID: BICA0063

Location: BRITTON SPRING 3 1/2 MILES WEST OF SYKES SPRING

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT BRITTON SPRING WHICH IS APPROXIMATELY 3 1/2 MILES WEST OF SYKES SPRING NEAR THE WEST MARGIN OF THE HORSE RANGE. SAMPLES FROM THIS SITE WERE COLLECTED ON MAY 14 1970. THE RESULTS WERE PUBLISHED IN "HYDROLOGIC EVALUATION OF THE PROBABLE EFFECTS OF DRILLING IRRIGATION WELLS IN THE PROXIMITY OF BRITTON SPRING IN THE SOUTHERN PART OF THE PRYOR MOUNTAIN HORSE RANGE IN THE WORLAND DISTRICT, WYOMING" ATTACHED TO A MEMORANDUM TO THE DISTRICT MANAGER, BUREAU OF LAND MANAGEMENT; WORLAND WYOMING FROM H. J. KING; SOIL AND MOISTURE CONSERVATION PROGRAM; USGS-WRD DENVER COLORADO. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 44.995337/-108.349392

Depth of Water: 0

Elevation: 4135

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 56003 WYOMING/BIG HORN

STORET Station ID(s): BICA_MEM_BRITT

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 01/24/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0063

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 05/14/70-05/14/70 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/14/70-05/14/70 | 1 | 2000. | 2000. | 2000. | 2000. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

400

Station Inventory for Station: BICA0064

NPS Station ID: BICA0064
 Location: 58-095-20bca01 BRITTON WELL
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080014
 Major Basin: U
 Minor Basin:
 RF1 Index: 10080014
 RF3 Index: 10080010003501.15
 Description:

LAT/LON: 44.995560/-108.346948

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.14

Agency: 112WRD
 FIPS State/County: 56003 WYOMING/BIG HORN
 STORET Station ID(s): 445944108204901
 Within Park Boundary: No

Date Created: 02/04/89

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.30
 Distance from RF3: 0.00

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0064

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/26/88-07/26/88 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/26/88-07/26/88 | 1 | 2450. | 2450. | 2450. | 2450. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/26/88-07/26/88 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/26/88-07/26/88 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/26/88-07/26/88 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 07/26/88-07/26/88 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 07/26/88-07/26/88 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/26/88-07/26/88 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 07/26/88-07/26/88 | 1 | 0.4 | 0.4 | 0.4 | 0.4 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 07/26/88-07/26/88 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/26/88-07/26/88 | 1 | 440. | 440. | 440. | 440. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/26/88-07/26/88 | 1 | 77. | 77. | 77. | 77. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 07/26/88-07/26/88 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 07/26/88-07/26/88 | 1 | 1.3 | 1.3 | 1.3 | 1.3 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 07/26/88-07/26/88 | 1 | 0.9 | 0.9 | 0.9 | 0.9 | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 07/26/88-07/26/88 | 1 | 1300. | 1300. | 1300. | 1300. | 0. | 0. | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 07/26/88-07/26/88 | 1 | 0.8 | 0.8 | 0.8 | 0.8 | 0. | 0. | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SI02) | 07/26/88-07/26/88 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 07/26/88-07/26/88 | 1 | 130. | 130. | 130. | 130. | 0. | 0. | ** | ** | ** | ** |
| 01145 SELENIUM, DISSOLVED (UG/L AS SE) | 07/26/88-07/26/88 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0064

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00403 PH, LAB | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 10. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0064

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|--------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01145 | SELENIUM, DISSOLVED | Fresh Acute | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 50. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0065

NPS Station ID: BICA0065

Location: BIGHORN LAKE NEAR MONTANA-WYOMING STATE LINE

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR THE MONTANA-WYOMING STATE LINE. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.001892/-108.245115

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_MFG_H

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/21/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0065

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 231 | 17.8 | 15.727 | 23.3 | 2.8 | 23.94 | 4.893 | 7.2 | 12.8 | 19.4 | 20.54 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/17/70-11/04/70 | 5 | 20. | 18.9 | 29.4 | 6.7 | 68.245 | 8.261 | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-12/02/70 | 24 | 7.4 | 7.183 | 10.4 | 2.6 | 3.725 | 1.93 | 4.2 | 6.05 | 8.55 | 9.8 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0065

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|-------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 24 | 2 | 0.08 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | | 15 | 1 | 0.07 | 6 | 0 | 0.00 | 3 | 1 | 0.33 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0066

| | | | |
|------------------------------------------|--------------------------------|-----------------------------------------|------------------------|
| NPS Station ID: BICA0066 | LAT/LON: 45.019920/-108.249420 | Agency: 11NPSWRD | Date Created: 11/15/97 |
| Location: BIGHORN LAKE 40 MILES FROM DAM | | FIPS State/County: 30009 MONTANA/CARBON | |
| Station Type: /RESERV/TYPA/AMBNT | | STORET Station ID(s): BICA_SOLT_4 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 40 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0066

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|--------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 159 | 16.1 | 15.744 | 23.9 | 8.1 | 11.797 | 3.435 | 11.1 | 13.3 | 17.8 | 20.5 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 33 | 39. | 56.727 | 350. | 12. | 4838.767 | 69.561 | 16. | 22. | 61. | 88.4 |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 221 | 75. | 72.086 | 100. | 12. | 380.479 | 19.506 | 43.4 | 60. | 86. | 97. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 158 | 870. | 858.354 | 1380. | 350. | 31596.638 | 177.754 | 582.5 | 793.75 | 950. | 1021. |
| 00406 PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 48 | 8.48 | 8.425 | 8.8 | 7.85 | 0.04 | 0.199 | 8.145 | 8.308 | 8.55 | 8.636 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 05/05/68-09/08/70 | 48 | 8.48 | 8.373 | 8.8 | 7.85 | 0.043 | 0.206 | 8.145 | 8.308 | 8.55 | 8.636 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/68-09/08/70 | 48 | 0.003 | 0.004 | 0.014 | 0.002 | 0. | 0.003 | 0.002 | 0.003 | 0.005 | 0.007 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.12 | 0.139 | 0.61 | 0. | 0.018 | 0.134 | 0. | 0.03 | 0.24 | 0.318 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.01 | 0.011 | 0.03 | 0. | 0. | 0.006 | 0.002 | 0.008 | 0.013 | 0.02 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 56 | 0.415 | 0.421 | 1.09 | 0.08 | 0.046 | 0.215 | 0.17 | 0.24 | 0.525 | 0.75 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 53 | 0.05 | 0.074 | 0.34 | 0. | 0.007 | 0.085 | 0. | 0.01 | 0.105 | 0.202 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 16 | 1. | 1.188 | 2. | 0. | 0.296 | 0.544 | 0.7 | 1. | 1.75 | 2. |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 16 | 6. | 15.375 | 56. | 0. | 360.65 | 18.991 | 0.7 | 2.25 | 29.5 | 56. |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 16 | 6. | 9.063 | 25. | 0. | 70.596 | 8.402 | 0. | 2.25 | 17.5 | 22.2 |
| 32238 CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 51 | 8.1 | 11.616 | 32.3 | 0.6 | 76.78 | 8.762 | 3.5 | 5.8 | 16.4 | 27.72 |
| 74010 IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 13 | 0.07 | 0.085 | 0.34 | 0.003 | 0.008 | 0.087 | 0.006 | 0.025 | 0.12 | 0.252 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0066

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | 50. | 33 | 11 | 0.33 | 9 | 1 | 0.11 | 15 | 9 | 0.60 | 9 | 1 | 0.11 | | | |
| 00406 | PH, FIELD | | | | | | | | | | | | | | | | |
| | Other-Hi Lim. | 9. | 48 | 0 | 0.00 | 17 | 0 | 0.00 | 14 | 0 | 0.00 | 17 | 0 | 0.00 | | | |
| | Fresh Chronic | 6.5 | 48 | 0 | 0.00 | 17 | 0 | 0.00 | 14 | 0 | 0.00 | 17 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 1. | 55 | 0 | 0.00 | 17 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| | Drinking Water | 10. | 56 | 0 | 0.00 | 18 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | 18. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | 1300. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | 120. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Fresh Acute | 5000. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | | | | | | | | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0067

NPS Station ID: BICA0067
 Location: PORCUPINE CREEK NEAR FORT SMITH YELLOWTAI
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080015006800.00
 Description:

LAT/LON: 45.020003/-108.234170

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 12.11

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 1963PO01
 Within Park Boundary: Yes

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 8.30
 Distance from RF3: 0.21

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0067

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/74-05/05/74 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/05/74-05/05/74 | 1 | 307. | 307. | 307. | 307. | 0. | 0. | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 05/05/74-05/05/74 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 05/05/74-05/05/74 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/74-05/05/74 | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/05/74-05/05/74 | 1 | 126. | 126. | 126. | 126. | 0. | 0. | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/05/74-05/05/74 | 1 | 149. | 149. | 149. | 149. | 0. | 0. | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 05/05/74-05/05/74 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/74-05/05/74 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 05/05/74-05/05/74 | 1 | 152. | 152. | 152. | 152. | 0. | 0. | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 05/05/74-05/05/74 | 1 | 46.3 | 46.3 | 46.3 | 46.3 | 0. | 0. | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/05/74-05/05/74 | 1 | 8.9 | 8.9 | 8.9 | 8.9 | 0. | 0. | ** | ** | ** |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 05/05/74-05/05/74 | 1 | 5.6 | 5.6 | 5.6 | 5.6 | 0. | 0. | ** | ** | ** |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/05/74-05/05/74 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/05/74-05/05/74 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** |
| 01027 | CADMIUM, TOTAL (UG/L AS Cd) | 05/05/74-05/05/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** |
| 01042 | COPPER, TOTAL (UG/L AS Cu) | 05/05/74-05/05/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS Fe) | 05/05/74-05/05/74 | 1 | 180. | 180. | 180. | 180. | 0. | 0. | ** | ** | ** |
| 01055 | MANGANESE, TOTAL (UG/L AS Mn) | 05/05/74-05/05/74 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** |
| 01092 | ZINC, TOTAL (UG/L AS Zn) | 05/05/74-05/05/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/05/74-05/05/74 | 1 | 242. | 242. | 242. | 242. | 0. | 0. | ** | ** | ** |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/05/74-05/05/74 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** |
| 71900 | MERCURY, TOTAL (UG/L AS Hg) | 05/05/74-05/05/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0067

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--|--|---------------------|---|------|---------------------|--|--|---------------|--|--|
| 00403 | PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| | | Fresh Acute | 860. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0067

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 2. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0068

NPS Station ID: BICA0068

Location: BIGHORN LAKE AT MOUTH OF DEVIL CANYON

Station Type: /RESERV/TYP/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING BIGHORN LAKE AT THE MOUTH OF DEVIL CANYON. SAMPLES FOR THIS SITE FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.020142/-108.248588

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30009 MONTANA/CARBON

STORET Station ID(s): BICA_EPA_3E

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 12/20/97

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0068

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 3 | 1.68 | 1.687 | 3.05 | 0.33 | 1.85 | 1.36 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 2.4 | 2.4 | 2.6 | 2.2 | 0.04 | 0.2 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0069

NPS Station ID: BICA0069
 Location: YELLOWTAIL RESERVOIR
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010082
 RF3 Index: 10080015000700.74
 Description:

LAT/LON: 45.022504/-108.246949

Depth of Water: 83
 Elevation: 0

RF1 Mile Point: 0.100
 RF3 Mile Point: 1.74

Agency: 11EPALES
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 561403
 Within Park Boundary: Yes

Date Created: 11/26/75

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.05

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0069

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 18 | 16.1 | 15.206 | 21.2 | 7.8 | 23.953 | 4.894 | 7.89 | 11.225 | 20.175 | 21.2 |
| 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 18 | 91.5 | 74. | 101. | 6. | 1118.824 | 33.449 | 10.5 | 50.75 | 101. | 101. |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 3 | 66. | 66.333 | 120. | 13. | 2862.333 | 53.501 | ** | ** | ** | ** |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 18 | 566. | 546.111 | 741. | 398. | 11551.516 | 107.478 | 399.8 | 467.75 | 597.25 | 726.6 |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 18 | 8. | 7.867 | 10.4 | 6.2 | 1.706 | 1.306 | 6.2 | 6.4 | 9.125 | 9.5 |
| 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 18 | 8.3 | 8.222 | 8.4 | 8. | 0.023 | 0.151 | 8. | 8. | 8.3 | 8.4 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 05/22/75-10/17/75 | 18 | 8.3 | 8.196 | 8.4 | 8. | 0.023 | 0.153 | 8. | 8. | 8.3 | 8.4 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/22/75-10/17/75 | 18 | 0.005 | 0.006 | 0.01 | 0.004 | 0. | 0.002 | 0.004 | 0.005 | 0.01 | 0.01 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/22/75-10/17/75 | 18 | 131. | 135.944 | 169. | 125. | 200.291 | 14.152 | 125. | 126. | 138.75 | 164.5 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 18 | 0.04 | 0.042 | 0.08 | 0.01 | 0.001 | 0.027 | 0.01 | 0.018 | 0.07 | 0.08 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 18 | 0.25 | 0.261 | 0.5 | 0.1 | 0.02 | 0.142 | 0.1 | 0.1 | 0.4 | 0.41 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 18 | 0.245 | 0.279 | 0.45 | 0.14 | 0.012 | 0.11 | 0.149 | 0.18 | 0.405 | 0.441 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 18 | 0.031 | 0.054 | 0.141 | 0.019 | 0.002 | 0.039 | 0.022 | 0.027 | 0.081 | 0.137 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 18 | 0.016 | 0.021 | 0.044 | 0.011 | 0. | 0.01 | 0.012 | 0.015 | 0.028 | 0.042 |
| 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 3 | 2.4 | 2.4 | 2.6 | 2.2 | 0.04 | 0.2 | ** | ** | ** | ** |
| 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 3 | 119. | 107.333 | 120. | 83. | 444.333 | 21.079 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0069

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|----|---|---------------------|---|---|---------------------|--|--|---------------|--|--|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 18 | 0 | 0.00 | 12 | 0 | 0.00 | 6 | 0 | 0.00 | | | | | |
| 00400 | PH | Fresh Chronic | 9. | 18 | 0 | 0.00 | 12 | 0 | 0.00 | 6 | 0 | 0.00 | | | | | |
| | | Other-Lo Lim. | 6.5 | 18 | 0 | 0.00 | 12 | 0 | 0.00 | 6 | 0 | 0.00 | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 18 | 0 | 0.00 | 12 | 0 | 0.00 | 6 | 0 | 0.00 | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0070

NPS Station ID: BICA0070

Location: BIGHORN LAKE NEAR DEVILS PLAYGROUND

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE NEAR DEVILS PLAYGROUND. SAMPLES FOR THIS SITE WERE COLLECTED FROM ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.050337/-108.219504

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_MFG_G

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/21/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0070

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 302 | 17.15 | 15.402 | 24.4 | 3.9 | 22.616 | 4.756 | 6.85 | 11.7 | 19.4 | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 09/16/70-11/12/71 | 5 | 21.1 | 22. | 30.6 | 15. | 40.905 | 6.396 | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-11/04/70 | 21 | 7. | 6.638 | 10. | 1. | 4.454 | 2.111 | 3.52 | 5.7 | 7.7 | 9.32 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0070

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|-------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 21 | 3 | 0.14 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | | 12 | 2 | 0.17 | 6 | 0 | 0.00 | 3 | 1 | 0.33 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0071

NPS Station ID: BICA0071
 Location: M39503
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.080615/-108.258893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_106 /1038669
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE MYSTERY CAVE MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0071

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/06/78-07/06/78 | 1 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/06/78-07/06/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/06/78-07/06/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/06/78-07/06/78 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/06/78-07/06/78 | 1 | 54.5 | 54.5 | 54.5 | 54.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/06/78-07/06/78 | 1 | 21.4 | 21.4 | 21.4 | 21.4 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/06/78-07/06/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/06/78-07/06/78 | 1 | 685. | 685. | 685. | 685. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/06/78-07/06/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/06/78-07/06/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/06/78-07/06/78 | 1 | 345. | 345. | 345. | 345. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/06/78-07/06/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/06/78-07/06/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/06/78-07/06/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/06/78-07/06/78 | 1 | 195. | 195. | 195. | 195. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/06/78-07/06/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/06/78-07/06/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0071

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0072

Description: THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR BARRY'S LANDING. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0072

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|--------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 348 | 16.7 | 15.43 | 24.4 | 5. | 19.156 | 4.377 | 8.3 | 11.925 | 18.9 | 20. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 09/16/70-11/12/71 | 4 | 19.15 | 18.75 | 20.6 | 16.1 | 4.07 | 2.017 | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-11/04/70 | 28 | 6.6 | 6.1 | 9.6 | 0.4 | 5.154 | 2.27 | 3. | 4.8 | 7.95 | 8.42 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0072

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 28 | 4 | 0.14 | 16 | 3 | 0.19 | 8 | 0 | 0.00 | 4 | 1 | 0.25 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0073

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0073 Location: BIGHORN LAKE AT BARRYS LANDING Station Type: /RESERV/TYPA/AMBNT RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT BARRYS LANDING. TEMPERATURE WAS THE ONLY PARAMETER MEASURED; AND IT WAS MEASURED IN 1987 AND 1988. THE RESULTS WERE OBTAINED FROM THE NATURAL RESOURCES DEPARTMENT AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516. | LAT/LON: 45.095337/-108.211116 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NPS_BL Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 02/21/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0073

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|--------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/02/87-05/15/91 | 72 | 47.5 | 48.097 | 65. | 34. | 100.371 | 10.019 | 36.3 | 38. | 57. | 64. |
| 85334 TEMPERATURE-DEG F, MINIMUM WATER | 04/04/86-09/30/87 | 430 | 60. | 57.098 | 72. | 34.5 | 83.368 | 9.131 | 43.5 | 51. | 64.125 | 67.5 |
| 85335 TEMPERATURE- DEG F , MAXIMUM WATER | 04/04/86-09/29/87 | 429 | 62. | 59.235 | 76.5 | 36. | 86.671 | 9.31 | 46. | 52. | 65.5 | 70. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0074

NPS Station ID: BICA0074
 Location: BIGHORN LAKE AT BARRY'S LANDING
 Station Type: /RESERV/TYPA/AMBNT
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.095365/-108.212198

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_CSU_BARRY
 Within Park Boundary: Yes

Date Created: 12/20/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 LAKE AT BARRY'S LANDING. SAMPLES FOR THIS SITE WERE COLLECTED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0074

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/09/80-11/26/80 | 8 | 20. | 18.313 | 22. | 10. | 22.496 | 4.743 | ** | ** | ** | ** |
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 07/09/80-11/26/80 | 8 | 2.65 | 2.528 | 3.3 | 1.27 | 0.524 | 0.724 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/09/80-11/26/80 | 6 | 544.5 | 565.167 | 722. | 490. | 7603.367 | 87.197 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/09/80-11/26/80 | 7 | 7.9 | 7.786 | 8.1 | 7. | 0.141 | 0.376 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/09/80-11/26/80 | 7 | 7.9 | 7.597 | 8.1 | 7. | 0.183 | 0.428 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/09/80-11/26/80 | 7 | 0.013 | 0.025 | 0.1 | 0.008 | 0.001 | 0.033 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 07/09/80-07/23/80 | 2 | 166.5 | 166.5 | 168. | 165. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/09/80-08/06/80 | 3 | 0.063 | 0.074 | 0.13 | 0.028 | 0.003 | 0.052 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/09/80-08/06/80 | 3 | 0.28 | 0.28 | 0.46 | 0.1 | 0.032 | 0.18 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 07/09/80-08/06/80 | 3 | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 07/09/80-11/26/80 | 8 | 0.015 | 0.014 | 0.02 | 0.003 | 0. | 0.005 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 07/09/80-11/26/80 | 8 | 3. | 5.113 | 15. | 0.8 | 24.193 | 4.919 | ** | ** | ** | ** |
| 82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 07/09/80-11/26/80 | 6 | 1. | 1.667 | 4. | 1. | 1.467 | 1.211 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0074

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 7 | 0 | 0.00 | 4 | 0 | 0.00 | | | | 3 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 7 | 0 | 0.00 | 4 | 0 | 0.00 | | | | 3 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 3 | 0 | 0.00 | | | | | | | 3 | 0 | 0.00 | | | |
| 82079 | TURBIDITY, LAB | Other-Hi Lim. | 50. | 6 | 0 | 0.00 | 4 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0075

| | | | |
|------------------------------------------|--------------------------------|-------------------------------------------|------------------------|
| NPS Station ID: BICA0075 | LAT/LON: 45.098503/-108.192477 | Agency: 11NPSWRD | Date Created: 11/15/97 |
| Location: BIGHORN LAKE 30 MILES FROM DAM | | FIPS State/County: 30003 MONTANA/BIG HORN | |
| Station Type: /RESERV/TYPA/AMBNT | | STORET Station ID(s): BICA_SOLT_3 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 30 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0075

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 249 | 15.5 | 15.48 | 25. | 6.1 | 12.705 | 3.564 | 11.1 | 12.8 | 17.8 | 20. |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 53 | 20. | 38.094 | 217. | 4. | 2023.818 | 44.987 | 9.6 | 16. | 35. | 114. |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 332 | 84.5 | 81.187 | 100. | 21. | 173.331 | 13.166 | 63. | 75. | 90. | 96. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 247 | 850. | 828.077 | 1320. | 450. | 27357.77 | 165.402 | 618. | 700. | 900. | 992. |
| 00406 PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 53 | 8.5 | 8.486 | 8.88 | 7.9 | 0.044 | 0.21 | 8.214 | 8.39 | 8.65 | 8.76 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 05/05/68-09/08/70 | 53 | 8.5 | 8.431 | 8.88 | 7.9 | 0.047 | 0.218 | 8.214 | 8.39 | 8.65 | 8.76 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/68-09/08/70 | 53 | 0.003 | 0.004 | 0.013 | 0.001 | 0. | 0.002 | 0.002 | 0.002 | 0.004 | 0.006 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.08 | 0.106 | 0.56 | 0. | 0.013 | 0.115 | 0. | 0.02 | 0.19 | 0.26 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.01 | 0.01 | 0.05 | 0. | 0. | 0.007 | 0.001 | 0.007 | 0.01 | 0.018 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 56 | 0.315 | 0.348 | 0.74 | 0. | 0.041 | 0.203 | 0.1 | 0.165 | 0.505 | 0.66 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 52 | 0.05 | 0.103 | 0.72 | 0. | 0.019 | 0.136 | 0. | 0.01 | 0.17 | 0.277 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 16 | 1. | 1.063 | 2. | 0. | 0.196 | 0.443 | 0.7 | 1. | 1. | 2. |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 16 | 2. | 7.063 | 43. | 0. | 124.863 | 11.174 | 0.7 | 1. | 12. | 24.8 |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 16 | 6.5 | 9.438 | 24. | 0. | 69.996 | 8.366 | 0. | 3. | 18. | 24. |
| 32238 CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 51 | 6.4 | 9.92 | 77. | 1.1 | 137.636 | 11.732 | 2.42 | 3.9 | 10.8 | 23.56 |
| 74010 IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 13 | 0.02 | 0.049 | 0.22 | 0.007 | 0.004 | 0.063 | 0.007 | 0.01 | 0.055 | 0.188 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0075

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | 50. | 53 | 9 | 0.17 | 15 | 2 | 0.13 | 23 | 4 | 0.17 | 15 | 3 | 0.20 | | | |
| 00406 | PH, FIELD | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 53 | 0 | 0.00 | 17 | 0 | 0.00 | 16 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 53 | 0 | 0.00 | 17 | 0 | 0.00 | 16 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | | | | | | | | | | | | | | | | |
| | Drinking Water | 1. | 55 | 0 | 0.00 | 17 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | | | | | | | | | | | | | | | | |
| | Drinking Water | 10. | 56 | 0 | 0.00 | 18 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | | | | | | | | | | | | | | | | |
| | Fresh Acute | 18. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | | | | | | | | | | | | | | | | |
| | Fresh Acute | 120. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0076

NPS Station ID: BICA0076
 Location: M38794
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.098615/-108.230616

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_105 /1038047
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0076

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 750. | 750. | 750. | 750. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 91.3 | 91.3 | 91.3 | 91.3 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 4.7 | 4.7 | 4.7 | 4.7 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 245. | 245. | 245. | 245. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 57. | 57. | 57. | 57. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 1544. | 1544. | 1544. | 1544. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 111. | 111. | 111. | 111. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 332. | 332. | 332. | 332. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 26. | 26. | 26. | 26. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 1.82 | 1.82 | 1.82 | 1.82 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0076

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0077

NPS Station ID: BICA0077

Location: UPSTREAM SPRING ON SOUTH FORK TRAIL CREEK

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

LAT/LON: 45.101310/-108.239059

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30009 MONTANA/CARBON

STORET Station ID(s): BICA_NPS_SPR_1

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 01/24/98

On/Off RF1:

On/Off RF3:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE UPSTREAM SPRING ON SOUTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0077

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 00058 FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 1 | 231. | 231. | 231. | 231. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0078

NPS Station ID: BICA0078
 Location: M38795
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.101892/-108.235309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_017/1038048
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0078

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 10.5 | 10.5 | 10.5 | 10.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 900. | 900. | 900. | 900. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 46.8 | 46.8 | 46.8 | 46.8 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 43. | 43. | 43. | 43. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 240. | 240. | 240. | 240. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 47. | 47. | 47. | 47. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 1923. | 1923. | 1923. | 1923. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 107. | 107. | 107. | 107. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 404. | 404. | 404. | 404. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.18 | 0.18 | 0.18 | 0.18 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0078

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0079

NPS Station ID: BICA0079

Location: DOWNSTREAM SPRING ON SOUTH FORK TRAIL CREEK

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

LAT/LON: 45.102226/-108.235143

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30009 MONTANA/CARBON

STORET Station ID(s): BICA_NPS_SPR_2

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 01/24/98

On/Off RF1:

On/Off RF3:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE DOWNSTREAM SPRING ON SOUTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0079

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 1 | 51. | 51. | 51. | 51. | 0. | 0. | ** | ** | ** | ** |
| 00058 FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 1 | 59. | 59. | 59. | 59. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0080

NPS Station ID: BICA0080

Location: DOWNSTREAM SPRING ON NORTH FORK TRAIL CREEK

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE DOWNSTREAM SPRING ON NORTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.106142/-108.225281

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30009 MONTANA/CARBON

STORET Station ID(s): BICA_NPS_SPR_4

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 01/24/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0080

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 00058 FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0081

NPS Station ID: BICA0081
 Location: M38792
 Station Type: /TYP/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.106892/-108.226893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_098 /1038045
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0081

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 11.5 | 11.5 | 11.5 | 11.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 1500. | 1500. | 1500. | 1500. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 86.7 | 86.7 | 86.7 | 86.7 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 58. | 58. | 58. | 58. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 316. | 316. | 316. | 316. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 22. | 22. | 22. | 22. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 73. | 73. | 73. | 73. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 3371. | 3371. | 3371. | 3371. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 130. | 130. | 130. | 130. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 533. | 533. | 533. | 533. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.97 | 0.97 | 0.97 | 0.97 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0081

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0082

NPS Station ID: BICA0082
 Location: M38793
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.107503/-108.241699

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_016/1038046
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0082

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 10.6 | 10.6 | 10.6 | 10.6 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 3350. | 3350. | 3350. | 3350. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 134. | 134. | 134. | 134. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 503. | 503. | 503. | 503. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 238. | 238. | 238. | 238. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 5250. | 5250. | 5250. | 5250. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 228. | 228. | 228. | 228. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 598. | 598. | 598. | 598. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 83. | 83. | 83. | 83. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 3.1 | 3.1 | 3.1 | 3.1 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0082

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0083

NPS Station ID: BICA0083

Location: UPSTREAM SPRING ON NORTH FORK TRAIL CREEK

Station Type: /TYP/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

LAT/LON: 45.107838/-108.228338

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30009 MONTANA/CARBON

STORET Station ID(s): BICA_NPS_SPR_3

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 01/24/98

On/Off RF1:

On/Off RF3:

THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE UPSTREAM SPRING ON NORTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0083

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/05/68-04/05/68 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 00058 FLOW, RATE GALLONS/MIN | 04/05/68-04/05/68 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0084

NPS Station ID: BICA0084
 Location: YELLOWTAIL RESERVOIR
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010013
 RF3 Index: 10080010002703.22
 Description:

LAT/LON: 45.113615/-108.183337

Depth of Water: 165
 Elevation: 0

RF1 Mile Point: 0.290
 RF3 Mile Point: 3.22

Agency: 11EPALES
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 561404
 Within Park Boundary: Yes

Date Created: 11/26/75

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0084

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 23 | 16.4 | 15.548 | 22.2 | 5.7 | 26.876 | 5.184 | 6. | 13.8 | 21.2 | 21.74 |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 23 | 92. | 90.348 | 101. | 69. | 120.419 | 10.974 | 74.4 | 80. | 100. | 101. |
| 00077 TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 3 | 90. | 118. | 240. | 24. | 12252. | 110.689 | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 22 | 614.5 | 634.591 | 776. | 501. | 12381.682 | 111.273 | 502. | 527. | 750.75 | 775.1 |
| 00300 OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 23 | 7.7 | 7.5 | 9.4 | 5.8 | 0.955 | 0.977 | 6.08 | 6.4 | 8.2 | 8.72 |
| 00400 PH (STANDARD UNITS) | 05/22/75-10/17/75 | 23 | 8.2 | 8.152 | 8.3 | 7.8 | 0.025 | 0.159 | 7.84 | 8. | 8.3 | 8.3 |
| 00400 CONVERTED PH (STANDARD UNITS) | 05/22/75-10/17/75 | 23 | 8.2 | 8.121 | 8.3 | 7.8 | 0.026 | 0.162 | 7.84 | 8. | 8.3 | 8.3 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/22/75-10/17/75 | 23 | 0.006 | 0.008 | 0.016 | 0.005 | 0. | 0.003 | 0.005 | 0.005 | 0.01 | 0.015 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/22/75-10/17/75 | 23 | 151. | 145.826 | 177. | 122. | 364.877 | 19.102 | 124. | 125. | 159. | 176. |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 23 | 0.06 | 0.046 | 0.09 | 0.01 | 0.001 | 0.03 | 0.01 | 0.01 | 0.07 | 0.08 |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 23 | 0.2 | 0.204 | 0.3 | 0.1 | 0.007 | 0.082 | 0.1 | 0.1 | 0.3 | 0.3 |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 23 | 0.26 | 0.326 | 0.59 | 0.12 | 0.02 | 0.142 | 0.18 | 0.2 | 0.45 | 0.526 |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 23 | 0.033 | 0.054 | 0.37 | 0.02 | 0.005 | 0.071 | 0.021 | 0.026 | 0.055 | 0.085 |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 23 | 0.019 | 0.021 | 0.036 | 0.013 | 0. | 0.008 | 0.014 | 0.016 | 0.027 | 0.035 |
| 32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 3 | 2.9 | 2.533 | 3.1 | 1.6 | 0.663 | 0.814 | ** | ** | ** | ** |
| 72025 DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 3 | 165. | 157.333 | 169. | 138. | 284.333 | 16.862 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0084

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 23 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 23 | 0 | 0.00 | 14 | 0 | 0.00 | 9 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 23 | 0 | 0.00 | 14 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 23 | 0 | 0.00 | 14 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0085

NPS Station ID: BICA0085
 Location: M38796
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.116392/-108.210309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_129 /1038049
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0085

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 94.7 | 94.7 | 94.7 | 94.7 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 5.9 | 5.9 | 5.9 | 5.9 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 58. | 58. | 58. | 58. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 185. | 185. | 185. | 185. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 1859. | 1859. | 1859. | 1859. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 144. | 144. | 144. | 144. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 774. | 774. | 774. | 774. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 37. | 37. | 37. | 37. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.47 | 0.47 | 0.47 | 0.47 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0085

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0086

NPS Station ID: BICA0086
 Location: M38797
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.136698/-108.242504

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_019 /1038050
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0086

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 1700. | 1700. | 1700. | 1700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 93.2 | 93.2 | 93.2 | 93.2 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 71. | 71. | 71. | 71. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 287. | 287. | 287. | 287. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 26. | 26. | 26. | 26. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 88. | 88. | 88. | 88. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 3557. | 3557. | 3557. | 3557. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 161. | 161. | 161. | 161. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 874. | 874. | 874. | 874. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 52. | 52. | 52. | 52. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 3.22 | 3.22 | 3.22 | 3.22 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0086

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0087

NPS Station ID: BICA0087
Location: BIGHORN LAKE NEAR DEADMANS CREEK
Station Type: /RESERV/TYPA/AMBNT
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080010
RF3 Index: 10080014004800.00
Description:
THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR DEADMANS CREEK. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.141559/-108.160365

Agency: 11NPSWRD
FIPS State/County: 30003 MONTANA/BIG HORN
STORET Station ID(s): BICA_MFG_E
Within Park Boundary: Yes

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 4.10
Distance from RF3: 0.35

Date Created: 02/21/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0087

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|--------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/70-10/20/72 | 458 | 16.1 | 14.63 | 23.9 | 4.4 | 20.581 | 4.537 | 7.74 | 11.1 | 17.925 | 19.8 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 09/16/70-05/16/72 | 5 | 22.2 | 23.18 | 29.3 | 17.2 | 27.452 | 5.239 | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/70-11/04/70 | 29 | 6.8 | 6.51 | 10.6 | 0.2 | 5.433 | 2.331 | 3.4 | 5.2 | 8.3 | 9. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0087

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|-------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 29 | 4 | 0.14 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | | 17 | 4 | 0.24 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0088

NPS Station ID: BICA0088
 Location: M38791
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.141698/-108.244198

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_107/1038044
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0088

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 1650. | 1650. | 1650. | 1650. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.6 | 8.6 | 8.6 | 8.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.6 | 8.6 | 8.6 | 8.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 | 60. | 60. | 60. | 60. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 272. | 272. | 272. | 272. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 89. | 89. | 89. | 89. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 3398. | 3398. | 3398. | 3398. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 41. | 41. | 41. | 41. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 158. | 158. | 158. | 158. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 | 498. | 498. | 498. | 498. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 43. | 43. | 43. | 43. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 0.86 | 0.86 | 0.86 | 0.86 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0088

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0089

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0089 Location: M38790 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.141892/-108.245809 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30009 MONTANA/CARBON STORET Station ID(s): BICA_NURE_020 /1038043 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0089

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 1700. | 1700. | 1700. | 1700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.6 | 8.6 | 8.6 | 8.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.6 | 8.6 | 8.6 | 8.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 | 65. | 65. | 65. | 65. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 270. | 270. | 270. | 270. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 123. | 123. | 123. | 123. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 3409. | 3409. | 3409. | 3409. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 48. | 48. | 48. | 48. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 144. | 144. | 144. | 144. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 | 271. | 271. | 271. | 271. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 42. | 42. | 42. | 42. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 4.13 | 4.13 | 4.13 | 4.13 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0089

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0090

NPS Station ID: BICA0090
 Location: M39575
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.148615/-108.318892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_018 /1038729
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0090

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/15/78-07/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/78-07/15/78 | 1 | 63. | 63. | 63. | 63. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/15/78-07/15/78 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/15/78-07/15/78 | 1 | 6.9 | 6.9 | 6.9 | 6.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/15/78-07/15/78 | 1 | 0.126 | 0.126 | 0.126 | 0.126 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/78-07/15/78 | 1 | 57.5 | 57.5 | 57.5 | 57.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/78-07/15/78 | 1 | 25.3 | 25.3 | 25.3 | 25.3 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/15/78-07/15/78 | 1 | 52. | 52. | 52. | 52. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/15/78-07/15/78 | 1 | 285. | 285. | 285. | 285. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/15/78-07/15/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/15/78-07/15/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/15/78-07/15/78 | 1 | 1478. | 1478. | 1478. | 1478. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/15/78-07/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/15/78-07/15/78 | 1 | 99. | 99. | 99. | 99. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/15/78-07/15/78 | 1 | 206. | 206. | 206. | 206. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/15/78-07/15/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/15/78-07/15/78 | 1 | 22. | 22. | 22. | 22. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/15/78-07/15/78 | 1 | 0.3 | 0.3 | 0.3 | 0.3 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0090

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0091

NPS Station ID: BICA0091
 Location: M38789
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.151392/-108.243116

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_108 /1038042
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0091

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 525. | 525. | 525. | 525. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.6 | 8.6 | 8.6 | 8.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.6 | 8.6 | 8.6 | 8.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 06/30/78-06/30/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 1 | 35.8 | 35.8 | 35.8 | 35.8 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 171. | 171. | 171. | 171. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 78. | 78. | 78. | 78. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 1400. | 1400. | 1400. | 1400. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 115. | 115. | 115. | 115. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 | 286. | 286. | 286. | 286. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 0.42 | 0.42 | 0.42 | 0.42 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0091

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0092

NPS Station ID: BICA0092
 Location: M39576
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.158615/-108.330615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_099 /1038730
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0092

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/15/78-07/15/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/78-07/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/15/78-07/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/15/78-07/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/15/78-07/15/78 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/78-07/15/78 | 1 | 1.3 | 1.3 | 1.3 | 1.3 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/78-07/15/78 | 1 | 0.6 | 0.6 | 0.6 | 0.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/15/78-07/15/78 | 1 | 37. | 37. | 37. | 37. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/15/78-07/15/78 | 1 | 197. | 197. | 197. | 197. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/15/78-07/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/15/78-07/15/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/15/78-07/15/78 | 1 | 469. | 469. | 469. | 469. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/15/78-07/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/15/78-07/15/78 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/15/78-07/15/78 | 1 | 164. | 164. | 164. | 164. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/15/78-07/15/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/15/78-07/15/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/15/78-07/15/78 | 1 | 0.36 | 0.36 | 0.36 | 0.36 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0092

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0093

NPS Station ID: BICA0093
 Location: M38787
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.158892/-108.214698

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_048 /1038040
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0093

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 22. | 22. | 22. | 22. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 1500. | 1500. | 1500. | 1500. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 1 | 89.6 | 89.6 | 89.6 | 89.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 | 38. | 38. | 38. | 38. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 290. | 290. | 290. | 290. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 22. | 22. | 22. | 22. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 2857. | 2857. | 2857. | 2857. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 90. | 90. | 90. | 90. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 | 180. | 180. | 180. | 180. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 1.52 | 1.52 | 1.52 | 1.52 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0093

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0094

NPS Station ID: BICA0094
 Location: M38788
 Station Type: /TYP/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.160003/-108.215810

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_128 /1038041
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0094

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 24. | 24. | 24. | 24. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 1700. | 1700. | 1700. | 1700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 1 | 91.1 | 91.1 | 91.1 | 91.1 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 | 68. | 68. | 68. | 68. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 331. | 331. | 331. | 331. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 24. | 24. | 24. | 24. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 3312. | 3312. | 3312. | 3312. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 76. | 76. | 76. | 76. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 109. | 109. | 109. | 109. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 | 723. | 723. | 723. | 723. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 43. | 43. | 43. | 43. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 3.26 | 3.26 | 3.26 | 3.26 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0094

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0095

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0095 Location: M38800 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS, DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.160810/-108.266892 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30009 MONTANA/CARBON STORET Station ID(s): BICA_NURE_012 /1038052 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0095

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 600. | 600. | 600. | 600. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 6.5 | 6.5 | 6.5 | 6.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 31.9 | 31.9 | 31.9 | 31.9 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 53. | 53. | 53. | 53. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 140. | 140. | 140. | 140. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 1473. | 1473. | 1473. | 1473. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 | 68. | 68. | 68. | 68. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 160. | 160. | 160. | 160. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 150. | 150. | 150. | 150. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 31. | 31. | 31. | 31. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.33 | 0.33 | 0.33 | 0.33 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0095

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0096

NPS Station ID: BICA0096
 Location: M39574
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.163892/-108.380310

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_021 /1038728
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE BIG ICE CAVE MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0096

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/15/78-07/15/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/15/78-07/15/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/15/78-07/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/15/78-07/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/15/78-07/15/78 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/15/78-07/15/78 | 1 | 1.1 | 1.1 | 1.1 | 1.1 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/15/78-07/15/78 | 1 | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/15/78-07/15/78 | 1 | 69. | 69. | 69. | 69. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/15/78-07/15/78 | 1 | 244. | 244. | 244. | 244. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/15/78-07/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/15/78-07/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/15/78-07/15/78 | 1 | 913. | 913. | 913. | 913. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/15/78-07/15/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/15/78-07/15/78 | 1 | 72. | 72. | 72. | 72. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/15/78-07/15/78 | 1 | 153. | 153. | 153. | 153. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/15/78-07/15/78 | 1 | 96. | 96. | 96. | 96. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/15/78-07/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/15/78-07/15/78 | 1 | 0.21 | 0.21 | 0.21 | 0.21 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0096

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0097

NPS Station ID: BICA0097
 Location: 129582
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.167504/-107.795615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_079 /7020606
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0097

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 600. | 600. | 600. | 600. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 1 | 31.4 | 31.4 | 31.4 | 31.4 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 1 | 5.1 | 5.1 | 5.1 | 5.1 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 1.3 | 1.3 | 1.3 | 1.3 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 109. | 109. | 109. | 109. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 59. | 59. | 59. | 59. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 48. | 48. | 48. | 48. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0097

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 1463. | 1463. | 1463. | 1463. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 23. | 23. | 23. | 23. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 5000. | 5000. | 5000. | 5000. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0097

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0098

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| NPS Station ID: BICA0098 Location: M38799 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS, DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.167504/-108.296893 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30009 MONTANA/CARBON STORET Station ID(s): BICA_NURE_028 /1038051 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
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Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0098

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 410. | 410. | 410. | 410. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 57.3 | 57.3 | 57.3 | 57.3 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 24.7 | 24.7 | 24.7 | 24.7 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 52. | 52. | 52. | 52. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 96. | 96. | 96. | 96. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 1207. | 1207. | 1207. | 1207. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 | 54. | 54. | 54. | 54. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 182. | 182. | 182. | 182. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 316. | 316. | 316. | 316. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.81 | 0.81 | 0.81 | 0.81 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0098

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0099

| | | | |
|------------------------------------------|--------------------------------|-------------------------------------------|------------------------|
| NPS Station ID: BICA0099 | LAT/LON: 45.168753/-108.151754 | Agency: 11NPSWRD | Date Created: 11/15/97 |
| Location: BIGHORN LAKE 20 MILES FROM DAM | | FIPS State/County: 30003 MONTANA/BIG HORN | |
| Station Type: /RESERV/TYP/AMBNT | | STORET Station ID(s): BICA_SOLT_2 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 20 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0099

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|-----|--------|--------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 337 | 14.7 | 14.368 | 23.3 | 5.6 | 14.936 | 3.865 | 8.54 | 12.2 | 16.9 | 19.24 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 74 | 13. | 18.878 | 68. | 4. | 221.341 | 14.878 | 6. | 8. | 21.25 | 40. |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 473 | 90. | 85.364 | 99. | 28. | 118.029 | 10.864 | 71. | 83. | 92. | 94. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 336 | 820. | 816.28 | 1370. | 430. | 23125.372 | 152.07 | 628.5 | 732.5 | 925. | 980. |
| 00406 PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 53 | 8.5 | 8.457 | 8.86 | 7.6 | 0.057 | 0.239 | 8.158 | 8.3 | 8.615 | 8.71 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 05/05/68-09/08/70 | 53 | 8.5 | 8.377 | 8.86 | 7.6 | 0.064 | 0.252 | 8.158 | 8.3 | 8.615 | 8.71 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/68-09/08/70 | 53 | 0.003 | 0.004 | 0.025 | 0.001 | 0. | 0.004 | 0.002 | 0.002 | 0.005 | 0.007 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 54 | 0.075 | 0.103 | 0.41 | 0. | 0.012 | 0.109 | 0. | 0.02 | 0.173 | 0.28 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 54 | 0.01 | 0.008 | 0.02 | 0. | 0. | 0.005 | 0. | 0.004 | 0.01 | 0.016 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.31 | 0.333 | 1.03 | 0.05 | 0.046 | 0.214 | 0.076 | 0.15 | 0.45 | 0.596 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 52 | 0.04 | 0.066 | 0.35 | 0. | 0.007 | 0.085 | 0. | 0.01 | 0.087 | 0.221 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 16 | 1. | 1. | 2. | 0. | 0.133 | 0.365 | 0.7 | 1. | 1. | 1.3 |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 16 | 1. | 13.313 | 103. | 0. | 729.829 | 27.015 | 0. | 1. | 11.5 | 60.3 |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 16 | 4. | 7.5 | 21. | 0. | 46. | 6.782 | 1.4 | 2. | 13.25 | 19.6 |
| 32238 CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 49 | 7.3 | 8.324 | 26.2 | 1.4 | 30.001 | 5.477 | 2.8 | 4.3 | 9.8 | 17.3 |
| 74010 IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 13 | 0.01 | 0.038 | 0.29 | 0.001 | 0.006 | 0.078 | 0.002 | 0.005 | 0.03 | 0.202 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0099

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | 50. | 74 | 5 | 0.07 | 21 | 3 | 0.14 | 34 | 2 | 0.06 | 19 | 0 | 0.00 | | | |
| 00406 | PH, FIELD | | | | | | | | | | | | | | | | |
| | Other-Hi Lim. | 9. | 53 | 0 | 0.00 | 17 | 0 | 0.00 | 16 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| | Fresh Chronic | 6.5 | 53 | 0 | 0.00 | 17 | 0 | 0.00 | 16 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 1. | 54 | 0 | 0.00 | 17 | 0 | 0.00 | 17 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | | | | | | | | | | | | | | | | |
| | Drinking Water | 10. | 55 | 0 | 0.00 | 18 | 0 | 0.00 | 17 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | | | | | | | | | | | | | | | | |
| | Fresh Acute | 18. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | | | | | | | | | | | | | | | | |
| | Drinking Water | 1300. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | | | | | | | | | | | | | | | | |
| | Fresh Acute | 120. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0100

NPS Station ID: BICA0100

Location: BIGHORN LAKE 1/4 MILE WEST OF DEAD INDIAN HILL

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA BIGHORN LAKE APPROXIMATELY 1/4 MILE WEST OF DEAD INDIAN HILL. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.170421/-108.150809

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_EPA_4E

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 12/20/97

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0100

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 3 | 2.29 | 3. | 6.1 | 0.61 | 7.913 | 2.813 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 2.9 | 2.533 | 3.1 | 1.6 | 0.663 | 0.814 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0101

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| NPS Station ID: BICA0101 Location: M38801 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS, DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.172503/-108.253115 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30009 MONTANA/CARBON STORET Station ID(s): BICA_NURE_029 /1038053 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0101

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 950. | 950. | 950. | 950. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 84.8 | 84.8 | 84.8 | 84.8 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 47.5 | 47.5 | 47.5 | 47.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 | 59. | 59. | 59. | 59. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 123. | 123. | 123. | 123. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 1841. | 1841. | 1841. | 1841. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 | 60. | 60. | 60. | 60. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 | 185. | 185. | 185. | 185. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.03 | 0.03 | 0.03 | 0.03 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0101

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0102

NPS Station ID: BICA0102
 Location: M39500
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.178892/-108.269698

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_030 /1038666
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0102

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 850. | 850. | 850. | 850. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 66.8 | 66.8 | 66.8 | 66.8 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 63.2 | 63.2 | 63.2 | 63.2 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 716. | 716. | 716. | 716. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 782. | 782. | 782. | 782. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.54 | 0.54 | 0.54 | 0.54 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0102

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0103

NPS Station ID: BICA0103
 Location: M39501
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.180003/-108.289393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_027/1038667
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0103

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 650. | 650. | 650. | 650. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 78.8 | 78.8 | 78.8 | 78.8 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 44.8 | 44.8 | 44.8 | 44.8 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 747. | 747. | 747. | 747. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 | 45. | 45. | 45. | 45. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 697. | 697. | 697. | 697. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 120. | 120. | 120. | 120. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 1.33 | 1.33 | 1.33 | 1.33 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0103

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0104

NPS Station ID: BICA0104
 Location: 129580
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.180810/-107.798615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_080 /7020603
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0104

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 400. | 400. | 400. | 400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 1 | 43. | 43. | 43. | 43. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 1 | 2.3 | 2.3 | 2.3 | 2.3 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 364. | 364. | 364. | 364. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 75. | 75. | 75. | 75. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0104

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 612. | 612. | 612. | 612. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 108. | 108. | 108. | 108. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 63. | 63. | 63. | 63. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 7900. | 7900. | 7900. | 7900. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 1 | 4.42 | 4.42 | 4.42 | 4.42 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0104

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0105

NPS Station ID: BICA0105
 Location: 129579
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.184392/-107.794198

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_078 /7020601
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0105

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 400. | 400. | 400. | 400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 1 | 2.2 | 2.2 | 2.2 | 2.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 2.2 | 2.2 | 2.2 | 2.2 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 466. | 466. | 466. | 466. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 71. | 71. | 71. | 71. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 133. | 133. | 133. | 133. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0105

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 831. | 831. | 831. | 831. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 112. | 112. | 112. | 112. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 24. | 24. | 24. | 24. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 10200. | 10200. | 10200. | 10200. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 1 | 3.15 | 3.15 | 3.15 | 3.15 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0105

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0106

NPS Station ID: BICA0106
 Location: M38781
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.185809/-108.236699

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_115 /1038039
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0106

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 20.5 | 20.5 | 20.5 | 20.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 420. | 420. | 420. | 420. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 06/30/78-06/30/78 | 1 | 54. | 54. | 54. | 54. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 1 | 33.8 | 33.8 | 33.8 | 33.8 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 80. | 80. | 80. | 80. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 119. | 119. | 119. | 119. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 963. | 963. | 963. | 963. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 92. | 92. | 92. | 92. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 0.35 | 0.35 | 0.35 | 0.35 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0106

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0107

NPS Station ID: BICA0107
 Location: 129577
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.186392/-107.786892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_081 /7020598
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0107

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/07/78-10/07/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/07/78-10/07/78 | 1 | 600. | 600. | 600. | 600. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/07/78-10/07/78 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/07/78-10/07/78 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/07/78-10/07/78 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/07/78-10/07/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/07/78-10/07/78 | 1 | 43.3 | 43.3 | 43.3 | 43.3 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/07/78-10/07/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/07/78-10/07/78 | 1 | 1.8 | 1.8 | 1.8 | 1.8 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/07/78-10/07/78 | 1 | 216. | 216. | 216. | 216. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/07/78-10/07/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/07/78-10/07/78 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/07/78-10/07/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/07/78-10/07/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/07/78-10/07/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/07/78-10/07/78 | 1 | 75. | 75. | 75. | 75. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/07/78-10/07/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/07/78-10/07/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/07/78-10/07/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0107

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/07/78-10/07/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/07/78-10/07/78 | 1 | 859. | 859. | 859. | 859. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/07/78-10/07/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/07/78-10/07/78 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/07/78-10/07/78 | 1 | 54. | 54. | 54. | 54. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/07/78-10/07/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/07/78-10/07/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/07/78-10/07/78 | 1 | 6200. | 6200. | 6200. | 6200. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/07/78-10/07/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/07/78-10/07/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/07/78-10/07/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/07/78-10/07/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/07/78-10/07/78 | 1 | 4.4 | 4.4 | 4.4 | 4.4 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/07/78-10/07/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/07/78-10/07/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0107

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0108

NPS Station ID: BICA0108
 Location: M38780
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.186392/-108.240310

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_114 /1038038
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0108

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 650. | 650. | 650. | 650. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.9 | 8.9 | 8.9 | 8.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 8.9 | 8.9 | 8.9 | 8.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.001 | 0.001 | 0.001 | 0.001 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 06/30/78-06/30/78 | 1 | 37.4 | 37.4 | 37.4 | 37.4 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 1 | 44.7 | 44.7 | 44.7 | 44.7 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 127. | 127. | 127. | 127. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 94. | 94. | 94. | 94. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 995. | 995. | 995. | 995. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 93. | 93. | 93. | 93. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 0.61 | 0.61 | 0.61 | 0.61 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0108

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0109

NPS Station ID: BICA0109
 Location: M38779
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.186893/-108.228892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_011 /1038037
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0109

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/78-06/30/78 | 1 | 9.5 | 9.5 | 9.5 | 9.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 06/30/78-06/30/78 | 1 | 850. | 850. | 850. | 850. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/78-06/30/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/78-06/30/78 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 06/30/78-06/30/78 | 1 | 51.4 | 51.4 | 51.4 | 51.4 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 06/30/78-06/30/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 06/30/78-06/30/78 | 1 | 165. | 165. | 165. | 165. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 06/30/78-06/30/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 06/30/78-06/30/78 | 1 | 78. | 78. | 78. | 78. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 06/30/78-06/30/78 | 1 | 1619. | 1619. | 1619. | 1619. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 06/30/78-06/30/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 06/30/78-06/30/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 06/30/78-06/30/78 | 1 | 121. | 121. | 121. | 121. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 06/30/78-06/30/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 06/30/78-06/30/78 | 1 | 18. | 18. | 18. | 18. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 06/30/78-06/30/78 | 1 | 0.26 | 0.26 | 0.26 | 0.26 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0109

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0110

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| NPS Station ID: BICA0110 Location: M39502 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS, DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.189699/-108.286393 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30009 MONTANA/CARBON STORET Station ID(s): BICA_NURE_032 /1038668 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
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Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0110

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/05/78-07/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/05/78-07/05/78 | 1 | 650. | 650. | 650. | 650. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/05/78-07/05/78 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/05/78-07/05/78 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/05/78-07/05/78 | 1 | 63.2 | 63.2 | 63.2 | 63.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/05/78-07/05/78 | 1 | 42.6 | 42.6 | 42.6 | 42.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/05/78-07/05/78 | 1 | 658. | 658. | 658. | 658. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/05/78-07/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/05/78-07/05/78 | 1 | 531. | 531. | 531. | 531. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/05/78-07/05/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/05/78-07/05/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/05/78-07/05/78 | 1 | 56. | 56. | 56. | 56. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/05/78-07/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/05/78-07/05/78 | 1 | 0.78 | 0.78 | 0.78 | 0.78 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0110

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0111

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| NPS Station ID: BICA0111 Location: M39565 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS, DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.192198/-108.307809 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30009 MONTANA/CARBON STORET Station ID(s): BICA_NURE_031 /1038720 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
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Date Created: 11/08/97

 On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0111

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 04/14/78-04/14/78 | 1 | 9.5 | 9.5 | 9.5 | 9.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 04/14/78-04/14/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 04/14/78-04/14/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 04/14/78-04/14/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 04/14/78-04/14/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 04/14/78-04/14/78 | 1 | 35.6 | 35.6 | 35.6 | 35.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 04/14/78-04/14/78 | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 04/14/78-04/14/78 | 1 | 288. | 288. | 288. | 288. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 04/14/78-04/14/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 04/14/78-04/14/78 | 1 | 83. | 83. | 83. | 83. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 04/14/78-04/14/78 | 1 | 1744. | 1744. | 1744. | 1744. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 04/14/78-04/14/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 04/14/78-04/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 04/14/78-04/14/78 | 1 | 182. | 182. | 182. | 182. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 04/14/78-04/14/78 | 1 | 127. | 127. | 127. | 127. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 04/14/78-04/14/78 | 1 | 40. | 40. | 40. | 40. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 04/14/78-04/14/78 | 1 | 0.09 | 0.09 | 0.09 | 0.09 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0111

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0112

| | | | |
|----------------------------------|--------------------------------|----------------------------------------------|------------------------|
| NPS Station ID: BICA0112 | LAT/LON: 45.193309/-108.309393 | Agency: 11NPSWRD | Date Created: 11/08/97 |
| Location: M39566 | | FIPS State/County: 30009 MONTANA/CARBON | |
| Station Type: /TYPA/AMBNT/STREAM | | STORET Station ID(s): BICA_NURE_109 /1038721 | |
| RMI-Indexes: | | Within Park Boundary: No | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0112

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/14/78-07/14/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 1 | 51.7 | 51.7 | 51.7 | 51.7 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 1 | 21.5 | 21.5 | 21.5 | 21.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 1 ## | 27.5 | 27.5 | 27.5 | 27.5 | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 1 | 41. | 41. | 41. | 41. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 1 | 1473. | 1473. | 1473. | 1473. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 1 | 160. | 160. | 160. | 160. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0112

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0113

NPS Station ID: BICA0113
Location: BIGHORN LAKE NEAR DRYHEAD CANYON
Station Type: /RESERV/TYPA/AMBNT
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080010
RF3 Index: 10080014004800.00
Description:
THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR DRYHEAD CANYON. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.194142/-108.125948

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.75

Agency: 11NPSWRD
FIPS State/County: 30003 MONTANA/BIG HORN
STORET Station ID(s): BICA_MFG_D
Within Park Boundary: Yes

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 4.10
Distance from RF3: 0.35

Date Created: 02/21/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0113

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|-------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/22/72 | 511 | 14.4 | 13.323 | 23.3 | 3.3 | 24.509 | 4.951 | 6.1 | 9. | 17.8 | 18.9 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 05/21/70-09/08/71 | 9 | 18.9 | 18.589 | 32.2 | 5.6 | 63.874 | 7.992 | 5.6 | 13.3 | 23.65 | 32.2 |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/21/70-12/02/70 | 34 | 7.4 | 6.624 | 10.8 | 2. | 5.51 | 2.347 | 3.5 | 4.4 | 8.6 | 9.2 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0113

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|-------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 34 | 5 | 0.15 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | | 21 | 4 | 0.19 | 9 | 0 | 0.00 | 4 | 1 | 0.25 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0114

NPS Station ID: BICA0114
 Location: M39567
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.204392/-108.324698

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): BICA_NURE_111 /1038722
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0114

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/14/78-07/14/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 1 | 89.5 | 89.5 | 89.5 | 89.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 1 | 112. | 112. | 112. | 112. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 1 | 118. | 118. | 118. | 118. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 1 | 2123. | 2123. | 2123. | 2123. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 1 | 87. | 87. | 87. | 87. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 1 | 0.25 | 0.25 | 0.25 | 0.25 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0114

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0115

NPS Station ID: BICA0115 LAT/LON: 45.206116/-108.157782
 Location: DRY HEAD CREEK NEAR FORT SMITH YELLOWTAIL
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010 RF1 Mile Point: 0.000
 RF3 Index: 10080014001405.63 RF3 Mile Point: 6.90
 Description:

Agency: 21MTHDWQ
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): 2164DR01
 Within Park Boundary: Yes

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0115

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/74-05/05/74 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/05/74-05/05/74 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 05/05/74-05/05/74 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 05/05/74-05/05/74 | 1 | 8.3 | 8.3 | 8.3 | 8.3 | 0. | 0. | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/74-05/05/74 | 1 | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/05/74-05/05/74 | 1 | 184. | 184. | 184. | 184. | 0. | 0. | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 05/05/74-05/05/74 | 1 | 224. | 224. | 224. | 224. | 0. | 0. | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 05/05/74-05/05/74 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/74-05/05/74 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 05/05/74-05/05/74 | 1 | 358. | 358. | 358. | 358. | 0. | 0. | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 05/05/74-05/05/74 | 1 | 90. | 90. | 90. | 90. | 0. | 0. | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/05/74-05/05/74 | 1 | 32.4 | 32.4 | 32.4 | 32.4 | 0. | 0. | ** | ** | ** |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 05/05/74-05/05/74 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 05/05/74-05/05/74 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 05/05/74-05/05/74 | 1 | 202. | 202. | 202. | 202. | 0. | 0. | ** | ** | ** |
| 01027 | CADMIUM, TOTAL (UG/L AS Cd) | 05/05/74-05/05/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** |
| 01042 | COPPER, TOTAL (UG/L AS Cu) | 05/05/74-05/05/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS Fe) | 05/05/74-05/05/74 | 1 | 750. | 750. | 750. | 750. | 0. | 0. | ** | ** | ** |
| 01055 | MANGANESE, TOTAL (UG/L AS Mn) | 05/05/74-05/05/74 | 1 | 70. | 70. | 70. | 70. | 0. | 0. | ** | ** | ** |
| 01092 | ZINC, TOTAL (UG/L AS Zn) | 05/05/74-05/05/74 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/05/74-05/05/74 | 1 | 563. | 563. | 563. | 563. | 0. | 0. | ** | ** | ** |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/05/74-05/05/74 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** |
| 71900 | MERCURY, TOTAL (UG/L AS Hg) | 05/05/74-05/05/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0115

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--|--|---------------------|---|------|---------------------|--|--|---------------|--|--|
| 00403 | PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| | | Fresh Acute | 860. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0115

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 2. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0116

NPS Station ID: BICA0116
 Location: 129573
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.208892/-107.763615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_077 /7020591
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0116

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 1000. | 1000. | 1000. | 1000. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 1 | 4.4 | 4.4 | 4.4 | 4.4 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 1 | 12.6 | 12.6 | 12.6 | 12.6 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 107. | 107. | 107. | 107. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 76. | 76. | 76. | 76. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 99. | 99. | 99. | 99. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0116

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 1650. | 1650. | 1650. | 1650. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 75. | 75. | 75. | 75. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 6000. | 6000. | 6000. | 6000. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0116

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0117

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0117 Location: 129578 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.215003/-107.763116 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_007 /7020599 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0117

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 900. | 900. | 900. | 900. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 1 | 59.9 | 59.9 | 59.9 | 59.9 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 3.6 | 3.6 | 3.6 | 3.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 92. | 92. | 92. | 92. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 111. | 111. | 111. | 111. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 200. | 200. | 200. | 200. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0117

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 2395. | 2395. | 2395. | 2395. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 95. | 95. | 95. | 95. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 153. | 153. | 153. | 153. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 23. | 23. | 23. | 23. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 9100. | 9100. | 9100. | 9100. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0117

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0118

NPS Station ID: BICA0118
Location: M39569
Station Type: /TYPA/AMBNT/SPRING
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080010
RF3 Index: 10080014004800.00
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

LAT/LON: 45.215003/-108.286892

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.75

Agency: 11NPSWRD
FIPS State/County: 30009 MONTANA/CARBON
STORET Station ID(s): BICA_NURE_033 /1038724
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 4.10
Distance from RF3: 0.35

Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0118

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/14/78-07/14/78 | 1 | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 1 | 65.2 | 65.2 | 65.2 | 65.2 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 1 | 297. | 297. | 297. | 297. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 1 | 66. | 66. | 66. | 66. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 1 | 2321. | 2321. | 2321. | 2321. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 1 | 192. | 192. | 192. | 192. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 1 | 2.21 | 2.21 | 2.21 | 2.21 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0118

| Parameter | Std. Type | Std. Value | Total | | | 8/10-4/14 | | | 4/15-6/19 | | | 6/20-8/09 | | | n/a | | |
|----------------------------------|----------------|------------|-------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----------|--------|-------|-----|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0119

NPS Station ID: BICA0119
 Location: M39570
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.216392/-108.288892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_113 /1038725
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0119

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/14/78-07/14/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 1 | 83.9 | 83.9 | 83.9 | 83.9 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 1 | 25.2 | 25.2 | 25.2 | 25.2 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 1 | 247. | 247. | 247. | 247. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 1 | 74. | 74. | 74. | 74. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 1 | 1205. | 1205. | 1205. | 1205. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 1 | 133. | 133. | 133. | 133. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 1 | 0.41 | 0.41 | 0.41 | 0.41 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0119

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0120

NPS Station ID: BICA0120
 Location: BIG BULL ELK CREEK NEAR FORT SMITH YELLOW
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080015004222.69
 Description:

LAT/LON: 45.216670/-108.066670

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 29.11

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2165BI01
 Within Park Boundary: Yes

Date Created: 12/20/86

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.18

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0120

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/74-05/04/74 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/04/74-05/04/74 | 1 | 327. | 327. | 327. | 327. | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/04/74-05/04/74 | 1 | 165. | 165. | 165. | 165. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 05/04/74-05/04/74 | 1 | 190. | 190. | 190. | 190. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 05/04/74-05/04/74 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/04/74-05/04/74 | 1 | 0.09 | 0.09 | 0.09 | 0.09 | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 05/04/74-05/04/74 | 1 | 172. | 172. | 172. | 172. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 05/04/74-05/04/74 | 1 | 43.6 | 43.6 | 43.6 | 43.6 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/04/74-05/04/74 | 1 | 15.4 | 15.4 | 15.4 | 15.4 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 05/04/74-05/04/74 | 1 | 1.3 | 1.3 | 1.3 | 1.3 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 05/04/74-05/04/74 | 1 | 0.6 | 0.6 | 0.6 | 0.6 | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 05/04/74-05/04/74 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS Cd) | 05/04/74-05/04/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS Cu) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01045 IRON, TOTAL (UG/L AS Fe) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01055 MANGANESE, TOTAL (UG/L AS Mn) | 05/04/74-05/04/74 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS Zn) | 05/04/74-05/04/74 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/04/74-05/04/74 | 1 | 265. | 265. | 265. | 265. | 0. | 0. | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/04/74-05/04/74 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 71900 MERCURY, TOTAL (UG/L AS Hg) | 05/04/74-05/04/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0120

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- Obs Exceed Prop. | -----4/15-6/19----- Obs Exceed Prop. | -----6/20-8/09----- Obs Exceed Prop. | -----n/a----- Obs Exceed Prop. |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------|
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| | Drinking Water | 250. | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | 1 0 0.00 | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | 1 0 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0120

| Parameter | Std. Type | Std. Value | Total | | | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------|----------------|-------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 01092 | ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 71900 | MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| | | Drinking Water | 2. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0121

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0121 Location: M39571 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-BIGHORN CO. AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK. PRIOR TO ANALYSIS, DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.218115/-108.285616 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_034 /1038726 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

 On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0121

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/14/78-07/14/78 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 1 | 86.6 | 86.6 | 86.6 | 86.6 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 1 | 24.6 | 24.6 | 24.6 | 24.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 1 | 249. | 249. | 249. | 249. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 1 | 1210. | 1210. | 1210. | 1210. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 1 | 0.58 | 0.58 | 0.58 | 0.58 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0121

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0122

NPS Station ID: BICA0122
 Location: M39568
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.218893/-108.343893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_112 /1038723
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0122

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/14/78-07/14/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/14/78-07/14/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/14/78-07/14/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 07/14/78-07/14/78 | 1 | 51.5 | 51.5 | 51.5 | 51.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/14/78-07/14/78 | 1 | 21.2 | 21.2 | 21.2 | 21.2 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 07/14/78-07/14/78 | 1 ## | 27.5 | 27.5 | 27.5 | 27.5 | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 07/14/78-07/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 07/14/78-07/14/78 | 1 | 73. | 73. | 73. | 73. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 07/14/78-07/14/78 | 1 | 467. | 467. | 467. | 467. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 07/14/78-07/14/78 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 07/14/78-07/14/78 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 07/14/78-07/14/78 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 07/14/78-07/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 07/14/78-07/14/78 | 1 | 0.25 | 0.25 | 0.25 | 0.25 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0122

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | | | | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0123

NPS Station ID: BICA0123 LAT/LON: 45.219448/-108.137503
 Location: HOODOO CREEK NEAR FORT SMITH YELLOWTAIL R
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010 RF1 Mile Point: 0.000
 RF3 Index: 10080010097400.00 RF3 Mile Point: 0.33
 Description:

Agency: 21MTHDWQ
 FIPS State/County: 30009 MONTANA/CARBON
 STORET Station ID(s): 2164HO01
 Within Park Boundary: Yes

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.33

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0123

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/74-05/05/74 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/05/74-05/05/74 | 1 | 939. | 939. | 939. | 939. | 0. | 0. | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 05/05/74-05/05/74 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 05/05/74-05/05/74 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/74-05/05/74 | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/05/74-05/05/74 | 1 | 160. | 160. | 160. | 160. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 05/05/74-05/05/74 | 1 | 185. | 185. | 185. | 185. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 05/05/74-05/05/74 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/74-05/05/74 | 1 | 0.11 | 0.11 | 0.11 | 0.11 | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 05/05/74-05/05/74 | 1 | 516. | 516. | 516. | 516. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 05/05/74-05/05/74 | 1 | 141. | 141. | 141. | 141. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/05/74-05/05/74 | 1 | 39.7 | 39.7 | 39.7 | 39.7 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 05/05/74-05/05/74 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 05/05/74-05/05/74 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 05/05/74-05/05/74 | 1 | 378. | 378. | 378. | 378. | 0. | 0. | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS Cd) | 05/05/74-05/05/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS Cu) | 05/05/74-05/05/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01045 IRON, TOTAL (UG/L AS Fe) | 05/05/74-05/05/74 | 1 | 300. | 300. | 300. | 300. | 0. | 0. | ** | ** | ** | ** |
| 01055 MANGANESE, TOTAL (UG/L AS Mn) | 05/05/74-05/05/74 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS Zn) | 05/05/74-05/05/74 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/05/74-05/05/74 | 1 | 764. | 764. | 764. | 764. | 0. | 0. | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/05/74-05/05/74 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 71900 MERCURY, TOTAL (UG/L AS Hg) | 05/05/74-05/05/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0123

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00403 PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Fresh Acute | 860. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0123

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 1 | 1.00 | | | | 1 | 1 | 1.00 | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 2. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0124

NPS Station ID: BICA0124
 Location: DRY HEAD CREEK
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: T/YELLOWTAIL RESERVOIR
 Minor Basin: BANK GAGE STA END DIRT RD & TRAIL
 RF1 Index: 10080010003
 RF3 Index: 10080014000200.00
 Description:
 BANK SAMPLE AT GAGE STATION AT END OF DIRT RD AND TRAIL .1 MI N OF BIB

LAT/LON: 45.220837/-108.162503

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.200
 RF3 Mile Point: 0.00

Agency: 11EPALES
 FIPS State/County: 56000 WYOMING/
 STORET Station ID(s): 5614D1
 Within Park Boundary: Yes

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.03

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0124

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|--------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 11/02/74-08/02/75 | 5 | 0.02 | 0.102 | 0.43 | 0.01 | 0.034 | 0.184 | ** | ** | ** | ** |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 11/02/74-11/02/74 | 1 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 11/02/74-11/02/74 | 1 | 0.232 | 0.232 | 0.232 | 0.232 | 0. | 0. | ** | ** | ** | ** |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 11/02/74-08/02/75 | 4 | 1.1 | 1.075 | 1.4 | 0.7 | 0.089 | 0.299 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 11/02/74-08/02/75 | 5 | 0.23 | 0.228 | 0.3 | 0.17 | 0.003 | 0.051 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/02/74-08/02/75 | 4 | 0.025 | 0.034 | 0.08 | 0.005 | 0.001 | 0.034 | ** | ** | ** | ** |
| 00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 11/02/74-08/02/75 | 5 ## | 0.003 | 0.005 | 0.015 | 0.003 | 0. | 0.006 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0124

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00615 NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00630 NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 5 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0125

NPS Station ID: BICA0125
 Location: 129576
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.229392/-107.785616

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_082 /7020596
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0125

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 1200. | 1200. | 1200. | 1200. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 133. | 133. | 133. | 133. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 409. | 409. | 409. | 409. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 206. | 206. | 206. | 206. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 38. | 38. | 38. | 38. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 2388. | 2388. | 2388. | 2388. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0125

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 87. | 87. | 87. | 87. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 131. | 131. | 131. | 131. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 | 31. | 31. | 31. | 31. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 116. | 116. | 116. | 116. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 13300. | 13300. | 13300. | 13300. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 1 | 10.49 | 10.49 | 10.49 | 10.49 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0125

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0126

NPS Station ID: BICA0126
 Location: 129603
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.231115/-107.804393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_083 /7020631
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0126

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/14/78-10/14/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/14/78-10/14/78 | 1 | 900. | 900. | 900. | 900. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/14/78-10/14/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/14/78-10/14/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/14/78-10/14/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/14/78-10/14/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/14/78-10/14/78 | 1 | 44.9 | 44.9 | 44.9 | 44.9 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/14/78-10/14/78 | 1 | 29.4 | 29.4 | 29.4 | 29.4 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/14/78-10/14/78 | 1 | 1.7 | 1.7 | 1.7 | 1.7 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/14/78-10/14/78 | 1 | 144. | 144. | 144. | 144. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/14/78-10/14/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/14/78-10/14/78 | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/14/78-10/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/14/78-10/14/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/14/78-10/14/78 | 1 | 68. | 68. | 68. | 68. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/14/78-10/14/78 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/14/78-10/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/14/78-10/14/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0126

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/14/78-10/14/78 | 1 | 1056. | 1056. | 1056. | 1056. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/14/78-10/14/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/14/78-10/14/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/14/78-10/14/78 | 1 | 56. | 56. | 56. | 56. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/14/78-10/14/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/14/78-10/14/78 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/14/78-10/14/78 | 1 | 8400. | 8400. | 8400. | 8400. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/14/78-10/14/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/14/78-10/14/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/14/78-10/14/78 | 1 | 7.72 | 7.72 | 7.72 | 7.72 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/14/78-10/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/14/78-10/14/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0126

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0127

NPS Station ID: BICA0127
 Location: LITTLE BULL ELK CRK NEAR FORT SMITH YELL
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080010009000.00
 Description:

LAT/LON: 45.233337/-108.066670

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.07

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2165LI01
 Within Park Boundary: Yes

Date Created: 12/20/86

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.20

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0127

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/74-05/04/74 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/04/74-05/04/74 | 1 | 343. | 343. | 343. | 343. | 0. | 0. | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 05/04/74-05/04/74 | 1 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 05/04/74-05/04/74 | 1 | 8.5 | 8.5 | 8.5 | 8.5 | 0. | 0. | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/04/74-05/04/74 | 1 | 0.003 | 0.003 | 0.003 | 0.003 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/04/74-05/04/74 | 1 | 178. | 178. | 178. | 178. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 05/04/74-05/04/74 | 1 | 205. | 205. | 205. | 205. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 05/04/74-05/04/74 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/04/74-05/04/74 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 05/04/74-05/04/74 | 1 | 182. | 182. | 182. | 182. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 05/04/74-05/04/74 | 1 | 49.4 | 49.4 | 49.4 | 49.4 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/04/74-05/04/74 | 1 | 14.4 | 14.4 | 14.4 | 14.4 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 05/04/74-05/04/74 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 05/04/74-05/04/74 | 1 | 0.3 | 0.3 | 0.3 | 0.3 | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 05/04/74-05/04/74 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS Cd) | 05/04/74-05/04/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS Cu) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01045 IRON, TOTAL (UG/L AS Fe) | 05/04/74-05/04/74 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 01055 MANGANESE, TOTAL (UG/L AS Mn) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS Zn) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/04/74-05/04/74 | 1 | 283. | 283. | 283. | 283. | 0. | 0. | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/04/74-05/04/74 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 71900 MERCURY, TOTAL (UG/L AS Hg) | 05/04/74-05/04/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0127

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00403 PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Fresh Acute | 860. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0127

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 2. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0128

NPS Station ID: BICA0128
 Location: YELLOWTAIL RESERVOIR
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010016
 RF3 Index: 10080010002300.82
 Description:

LAT/LON: 45.233892/-108.077227

Depth of Water: 999
 Elevation: 0

RF1 Mile Point: 5.980
 RF3 Mile Point: 5.67

Agency: 11EPALES
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 561405
 Within Park Boundary: Yes

Date Created: 01/14/76

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0128

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-------|--------|---------|---------|---------|----------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 24 | 16.55 | 14.85 | 21.5 | 4.8 | 32.568 | 5.707 | 5.45 | 11.325 | 21.175 | 21.4 |
| 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 24 | 100. | 97.917 | 101. | 81. | 27.21 | 5.216 | 88.5 | 98. | 101. | 101. |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 3 | 120. | 140. | 240. | 60. | 8400. | 91.652 | ** | ** | ** | ** |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 24 | 564. | 578.417 | 718. | 457. | 6862.341 | 82.839 | 460. | 523.75 | 644.5 | 703. |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 23 | 7.4 | 7.183 | 9.6 | 5. | 1.814 | 1.347 | 5.24 | 6. | 8. | 9.2 |
| 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 24 | 8.1 | 8.058 | 8.25 | 7.8 | 0.019 | 0.137 | 7.9 | 7.9 | 8.2 | 8.225 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 05/22/75-10/17/75 | 24 | 8.1 | 8.037 | 8.25 | 7.8 | 0.019 | 0.139 | 7.9 | 7.9 | 8.2 | 8.225 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/22/75-10/17/75 | 24 | 0.008 | 0.009 | 0.016 | 0.006 | 0. | 0.003 | 0.006 | 0.006 | 0.013 | 0.013 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/22/75-10/17/75 | 24 | 142. | 145.417 | 186. | 107. | 712.775 | 26.698 | 108.5 | 126.5 | 172.25 | 180. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 24 ## | 0.015 | 0.03 | 0.09 | 0.01 | 0.001 | 0.028 | 0.01 | 0.01 | 0.048 | 0.085 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 24 | 0.2 | 0.171 | 0.3 | 0.1 | 0.006 | 0.075 | 0.1 | 0.1 | 0.2 | 0.3 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 24 | 0.285 | 0.341 | 0.72 | 0.22 | 0.017 | 0.13 | 0.22 | 0.245 | 0.445 | 0.52 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 24 | 0.026 | 0.032 | 0.116 | 0.018 | 0. | 0.02 | 0.019 | 0.021 | 0.036 | 0.049 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 24 | 0.02 | 0.02 | 0.028 | 0.016 | 0. | 0.003 | 0.017 | 0.017 | 0.022 | 0.027 |
| 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 3 | 1.5 | 2.4 | 4.4 | 1.3 | 3.01 | 1.735 | ** | ** | ** | ** |
| 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 3 | 999. | 734. | 999. | 204. | 210675. | 458.993 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0128

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|----|---|---------------------|---|---|---------------------|--|--|---------------|--|--|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 23 | 0 | 0.00 | 15 | 0 | 0.00 | 8 | 0 | 0.00 | | | | | |
| 00400 | PH | Fresh Chronic | 9. | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |
| | | Other-Lo Lim. | 6.5 | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0129

NPS Station ID: BICA0129

Location: BIGHORN LAKE AT MOUTH OF BIG BULL ELK CANYON

Station Type: /RESERV/TYP/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE LITTLE FINGER RIDGE MONTANA BIGHORN LAKE AT THE MOUTH OF BIG BULL ELK CANYON. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE

LAT/LON: 45.234920/-108.077087

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE MOUTH OF BIG BULL ELK CANYON. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_EPA_5E

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0129

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 3 | 3.05 | 3.557 | 6.1 | 1.52 | 5.437 | 2.332 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 1.5 | 2.4 | 4.4 | 1.3 | 3.01 | 1.735 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0130

NPS Station ID: BICA0130
 Location: 129617
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.236699/-107.830003

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_071 /7020651
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0130

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 1000. | 1000. | 1000. | 1000. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 44. | 44. | 44. | 44. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 1 | 76.1 | 76.1 | 76.1 | 76.1 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 3.9 | 3.9 | 3.9 | 3.9 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 83. | 83. | 83. | 83. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 150. | 150. | 150. | 150. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 31. | 31. | 31. | 31. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0130

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 604. | 604. | 604. | 604. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 37. | 37. | 37. | 37. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 6800. | 6800. | 6800. | 6800. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 | 18. | 18. | 18. | 18. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 11.08 | 11.08 | 11.08 | 11.08 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0130

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0131

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0131 Location: 129618 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.239198/-107.855809 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_074 /7020653 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0131

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 48.5 | 48.5 | 48.5 | 48.5 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 1 | 46.9 | 46.9 | 46.9 | 46.9 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 4.7 | 4.7 | 4.7 | 4.7 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 142. | 142. | 142. | 142. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 86. | 86. | 86. | 86. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 130. | 130. | 130. | 130. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0131

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 974. | 974. | 974. | 974. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 40. | 40. | 40. | 40. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 150. | 150. | 150. | 150. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 9200. | 9200. | 9200. | 9200. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 8.46 | 8.46 | 8.46 | 8.46 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0131

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0132

| | | | |
|------------------------------------------|--------------------------------|-------------------------------------------|------------------------|
| NPS Station ID: BICA0132 | LAT/LON: 45.247587/-108.073226 | Agency: 11NPSWRD | Date Created: 11/15/97 |
| Location: BIGHORN LAKE 10 MILES FROM DAM | | FIPS State/County: 30003 MONTANA/BIG HORN | |
| Station Type: /RESERV/TYPA/AMBNT | | STORET Station ID(s): BICA_SOLT_1 | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |

Description:
 THE STATION IS LOCATED ON THE LITTLE FINGER RIDGE MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 10 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0132

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-11/02/68 | 410 | 13.3 | 12.845 | 22.5 | 4.4 | 19.445 | 4.41 | 6.7 | 8.525 | 16.7 | 18. |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 90 | 12. | 14.011 | 44. | 4. | 59.067 | 7.686 | 8. | 8. | 20. | 22. |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 543 | 90. | 88.657 | 98. | 59. | 32.288 | 5.682 | 82. | 87. | 92. | 94. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-11/02/68 | 408 | 770. | 798.194 | 1000. | 540. | 17690.363 | 133.005 | 620. | 690. | 930. | 970. |
| 00406 PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 51 | 8.5 | 8.439 | 8.75 | 8.02 | 0.035 | 0.186 | 8.11 | 8.3 | 8.59 | 8.688 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 05/05/68-09/08/70 | 51 | 8.5 | 8.397 | 8.75 | 8.02 | 0.036 | 0.191 | 8.11 | 8.3 | 8.59 | 8.688 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/68-09/08/70 | 51 | 0.003 | 0.004 | 0.01 | 0.002 | 0. | 0.002 | 0.002 | 0.003 | 0.005 | 0.008 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 54 | 0.03 | 0.101 | 0.65 | 0. | 0.02 | 0.14 | 0. | 0.008 | 0.145 | 0.255 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.01 | 0.008 | 0.02 | 0. | 0. | 0.005 | 0. | 0.005 | 0.01 | 0.016 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 56 | 0.31 | 0.324 | 1.03 | 0.08 | 0.032 | 0.178 | 0.124 | 0.2 | 0.433 | 0.542 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 53 | 0.05 | 0.057 | 0.28 | 0. | 0.004 | 0.067 | 0. | 0.01 | 0.075 | 0.16 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 16 | 1. | 1.063 | 2. | 0. | 0.196 | 0.443 | 0.7 | 1. | 1. | 2. |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 16 | 2. | 13.625 | 67. | 0. | 428.517 | 20.701 | 0.7 | 1. | 19. | 57.2 |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 16 | 6. | 10.063 | 40. | 0. | 118.329 | 10.878 | 1.4 | 2. | 17.25 | 28.1 |
| 32238 CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 50 | 3.7 | 4.86 | 20.2 | 0. | 13.432 | 3.665 | 1.44 | 2.1 | 7.1 | 9.62 |
| 74010 IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 13 | 0.007 | 0.03 | 0.19 | 0.001 | 0.003 | 0.052 | 0.002 | 0.005 | 0.035 | 0.138 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0132

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | 50. | 90 | 0 | 0.00 | 27 | 0 | 0.00 | 37 | 0 | 0.00 | 26 | 0 | 0.00 | | | |
| 00406 | PH, FIELD | 9. | 51 | 0 | 0.00 | 17 | 0 | 0.00 | 16 | 0 | 0.00 | 18 | 0 | 0.00 | | | |
| | Other-Hi Lim. | 6.5 | 51 | 0 | 0.00 | 17 | 0 | 0.00 | 16 | 0 | 0.00 | 18 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | 1. | 55 | 0 | 0.00 | 17 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | 10. | 56 | 0 | 0.00 | 18 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | 18. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Fresh Acute | 1300. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | 120. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0133

NPS Station ID: BICA0133
 Location: 129619
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.248892/-107.859698

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_073 /7020655
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0133

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/79-10/15/79 | 1 | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/79-10/15/79 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/79-10/15/79 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/79-10/15/79 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/79-10/15/79 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/79-10/15/79 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 10/15/79-10/15/79 | 1 | 95.1 | 95.1 | 95.1 | 95.1 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/79-10/15/79 | 1 | 35.2 | 35.2 | 35.2 | 35.2 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/79-10/15/79 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/79-10/15/79 | 1 | 2.2 | 2.2 | 2.2 | 2.2 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/79-10/15/79 | 1 | 104. | 104. | 104. | 104. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/79-10/15/79 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/79-10/15/79 | 1 | 65. | 65. | 65. | 65. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/79-10/15/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/79-10/15/79 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/79-10/15/79 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/79-10/15/79 | 1 | 39. | 39. | 39. | 39. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/79-10/15/79 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/79-10/15/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0133

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/15/79-10/15/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/15/79-10/15/79 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/79-10/15/79 | 1 | 699. | 699. | 699. | 699. | 0. | 0. | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/79-10/15/79 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/79-10/15/79 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/79-10/15/79 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/79-10/15/79 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/79-10/15/79 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/79-10/15/79 | 1 | 6600. | 6600. | 6600. | 6600. | 0. | 0. | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/79-10/15/79 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/79-10/15/79 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/79-10/15/79 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/79-10/15/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/79-10/15/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/79-10/15/79 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/79-10/15/79 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0133

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0134

NPS Station ID: BICA0134
 Location: BLACK CANYON CREEK NR FORT SMITH-YELLOWTA
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080010001602.76
 Description:

LAT/LON: 45.250005/-107.966670

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 2.92

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2166BL01
 Within Park Boundary: Yes

Date Created: 12/20/86

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0134

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/04/74-05/04/74 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 05/04/74-05/04/74 | 1 | 330. | 330. | 330. | 330. | 0. | 0. | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 05/04/74-05/04/74 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 05/04/74-05/04/74 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/04/74-05/04/74 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/04/74-05/04/74 | 1 | 164. | 164. | 164. | 164. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 05/04/74-05/04/74 | 1 | 200. | 200. | 200. | 200. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 05/04/74-05/04/74 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/04/74-05/04/74 | 1 | 0.24 | 0.24 | 0.24 | 0.24 | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 05/04/74-05/04/74 | 1 | 177. | 177. | 177. | 177. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 05/04/74-05/04/74 | 1 | 44.9 | 44.9 | 44.9 | 44.9 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 05/04/74-05/04/74 | 1 | 15.7 | 15.7 | 15.7 | 15.7 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 05/04/74-05/04/74 | 1 | 1.3 | 1.3 | 1.3 | 1.3 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 05/04/74-05/04/74 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 05/04/74-05/04/74 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS Cd) | 05/04/74-05/04/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS Cu) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01045 IRON, TOTAL (UG/L AS Fe) | 05/04/74-05/04/74 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01055 MANGANESE, TOTAL (UG/L AS Mn) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS Zn) | 05/04/74-05/04/74 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 05/04/74-05/04/74 | 1 | 277. | 277. | 277. | 277. | 0. | 0. | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 05/04/74-05/04/74 | 1 | 0.039 | 0.039 | 0.039 | 0.039 | 0. | 0. | ** | ** | ** | ** |
| 71900 MERCURY, TOTAL (UG/L AS Hg) | 05/04/74-05/04/74 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0134

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00403 PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Fresh Acute | 860. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0134

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 2. | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0135

NPS Station ID: BICA0135
 Location: M38069
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.251698/-108.281393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_116 /1037437
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE DEEP CREEK SE MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0135

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 1100. | 1100. | 1100. | 1100. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 71.3 | 71.3 | 71.3 | 71.3 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 29.8 | 29.8 | 29.8 | 29.8 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 305. | 305. | 305. | 305. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 54. | 54. | 54. | 54. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 57. | 57. | 57. | 57. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 642. | 642. | 642. | 642. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 161. | 161. | 161. | 161. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.03 | 0.03 | 0.03 | 0.03 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0135

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0136

NPS Station ID: BICA0136

Location: BIGHORN LAKE NEAR LITTLE BULL ELK CREEK

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR LITTLE BULL ELK CREEK. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

LAT/LON: 45.252698/-108.065227

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_MFG_C

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/21/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0136

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 440 | 15. | 13.669 | 22.2 | 2.8 | 25.511 | 5.051 | 5.51 | 10. | 17.8 | 19.19 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/18/70-09/28/70 | 2 | 23.6 | 23.6 | 25. | 22.2 | 3.92 | 1.98 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 05/21/70-11/03/70 | 30 | 6.3 | 6.687 | 9.8 | 3.2 | 3.315 | 1.821 | 4.6 | 5.4 | 8.45 | 9.36 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0136

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|---|------|---------------|--------|-------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 30 | 2 | 0.07 | 17 | 2 | 0.12 | 9 | 0 | 0.00 | 4 | 0 | 0.00 | Obs | Exceed | Prop. |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0137

NPS Station ID: BICA0137
 Location: 129620
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.258309/-107.855309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_072 /7020657
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0137

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 | 0.55 | 0.55 | 0.55 | 0.55 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 45.9 | 45.9 | 45.9 | 45.9 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 1 | 47.8 | 47.8 | 47.8 | 47.8 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 3.3 | 3.3 | 3.3 | 3.3 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 139. | 139. | 139. | 139. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 84. | 84. | 84. | 84. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 292. | 292. | 292. | 292. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 40. | 40. | 40. | 40. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0137

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 901. | 901. | 901. | 901. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 359. | 359. | 359. | 359. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 8800. | 8800. | 8800. | 8800. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 8.12 | 8.12 | 8.12 | 8.12 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0137

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0138

NPS Station ID: BICA0138
 Location: 129574
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.264392/-107.771698

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_084 /7020593
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0138

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/08/78-10/08/78 | 1 | 18. | 18. | 18. | 18. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/08/78-10/08/78 | 1 | 1000. | 1000. | 1000. | 1000. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/08/78-10/08/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/08/78-10/08/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/08/78-10/08/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/08/78-10/08/78 | 1 | 92.6 | 92.6 | 92.6 | 92.6 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/08/78-10/08/78 | 1 | 41.4 | 41.4 | 41.4 | 41.4 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/08/78-10/08/78 | 1 | 4.7 | 4.7 | 4.7 | 4.7 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/08/78-10/08/78 | 1 | 217. | 217. | 217. | 217. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/08/78-10/08/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/08/78-10/08/78 | 1 | 195. | 195. | 195. | 195. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/08/78-10/08/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/08/78-10/08/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/08/78-10/08/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/08/78-10/08/78 | 1 | 234. | 234. | 234. | 234. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/08/78-10/08/78 | 1 | 112. | 112. | 112. | 112. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/08/78-10/08/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/08/78-10/08/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0138

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/08/78-10/08/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/08/78-10/08/78 | 1 | 3677. | 3677. | 3677. | 3677. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/08/78-10/08/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/08/78-10/08/78 | 1 | 54. | 54. | 54. | 54. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/08/78-10/08/78 | 1 | 198. | 198. | 198. | 198. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/08/78-10/08/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/08/78-10/08/78 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/08/78-10/08/78 | 1 | 11900. | 11900. | 11900. | 11900. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/08/78-10/08/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/08/78-10/08/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/08/78-10/08/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/08/78-10/08/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/08/78-10/08/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/08/78-10/08/78 | 1 | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/08/78-10/08/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0138

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0139

NPS Station ID: BICA0139
 Location: SOAP CREEK ABOVE OIL FIELD NEAR FT. SMITH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015003700.00
 Description:
 CROW 208 WQ PROGRAM

LAT/LON: 45.264448/-107.759726

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.34

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2267SO05
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0139

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/01/76-07/06/77 | 7 | 16. | 12. | 22. | 0. | 57.333 | 7.572 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 07/01/76-07/06/77 | 7 | 26. | 27.857 | 43. | 21. | 55.81 | 7.471 | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 07/01/76-07/06/77 | 7 | 880. | 840.714 | 1000. | 525. | 24203.571 | 155.575 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/11/77-07/06/77 | 4 | 872. | 908.25 | 1056. | 833. | 10082.917 | 100.414 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 07/01/76-07/06/77 | 6 | 9.75 | 9.833 | 12.4 | 7.6 | 2.715 | 1.648 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/01/76-07/06/77 | 7 | 8.1 | 7.986 | 8.3 | 7.2 | 0.151 | 0.389 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/01/76-07/06/77 | 7 | 8.1 | 7.791 | 8.3 | 7.2 | 0.196 | 0.442 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/01/76-07/06/77 | 7 | 0.008 | 0.016 | 0.063 | 0.005 | 0. | 0.021 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 01/11/77-07/06/77 | 4 | 8.05 | 8.075 | 8.2 | 8. | 0.009 | 0.096 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 01/11/77-07/06/77 | 4 | 8.047 | 8.067 | 8.2 | 8. | 0.009 | 0.096 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/11/77-07/06/77 | 4 | 0.009 | 0.009 | 0.01 | 0.006 | 0. | 0.002 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 07/01/76-07/06/77 | 7 | 193. | 193.286 | 230. | 170. | 426.571 | 20.654 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 01/11/77-07/06/77 | 4 | 234. | 239. | 281. | 207. | 1212.667 | 34.823 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 01/11/77-07/06/77 | 4 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/09/76-07/06/77 | 5 | 42. | 36.4 | 53. | 18. | 229.3 | 15.143 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 7 ## | 0.05 | 0.209 | 0.7 | 0.005 | 0.076 | 0.275 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 7 | 0.08 | 0.132 | 0.37 | 0.025 | 0.018 | 0.134 | ** | ** | ** | ** |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 07/01/76-07/06/77 | 7 | 0.5 | 0.457 | 0.9 | 0.05 | 0.086 | 0.293 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 07/01/76-07/06/77 | 7 | 0.01 | 0.038 | 0.15 | 0.005 | 0.003 | 0.053 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 01/11/77-07/06/77 | 4 | 464.5 | 470. | 510. | 441. | 974. | 31.209 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 01/11/77-07/06/77 | 4 | 126.5 | 129. | 141. | 122. | 76.667 | 8.756 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/11/77-07/06/77 | 4 | 36.85 | 35.925 | 41.7 | 28.3 | 32.669 | 5.716 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 01/11/77-07/06/77 | 4 | 10.5 | 18.5 | 45. | 8. | 313.667 | 17.711 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 01/11/77-07/06/77 | 4 | 2. | 4.25 | 11. | 2. | 20.25 | 4.5 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 01/11/77-07/06/77 | 4 | 3.5 | 3.75 | 6. | 2. | 2.917 | 1.708 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 01/11/77-07/06/77 | 4 | 300.5 | 303.75 | 342. | 272. | 952.25 | 30.859 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 01/11/77-07/06/77 | 4 | 0.485 | 0.49 | 0.52 | 0.47 | 0. | 0.022 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 01/11/77-07/06/77 | 4 | 10. | 10. | 12. | 8. | 2.667 | 1.633 | ** | ** | ** | ** |
| 01002 ARSENIC, TOTAL (UG/L AS AS) | 01/11/77-07/06/77 | 4 ## | 1. | 0.875 | 1. | 0.5 | 0.063 | 0.25 | ** | ** | ** | ** |
| 01012 BERYLLIUM, TOTAL (UG/L AS BE) | 01/11/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01022 BORON, TOTAL (UG/L AS B) | 01/11/77-07/06/77 | 4 | 107. | 193.5 | 480. | 80. | 36755.667 | 191.718 | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS CD) | 01/11/77-07/06/77 | 4 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01034 CHROMIUM, TOTAL (UG/L AS CR) | 01/11/77-07/06/77 | 4 | 15. | 24. | 61. | 5. | 647.333 | 25.443 | ** | ** | ** | ** |
| 01037 COBALT, TOTAL (UG/L AS CO) | 01/11/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS CU) | 01/11/77-07/06/77 | 4 ## | 7.5 | 10.75 | 23. | 5. | 72.25 | 8.5 | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/11/77-07/06/77 | 4 | 525. | 542.5 | 870. | 250. | 92491.667 | 304.124 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0139

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|---------|---------|---------|-------------|-----------|------|------|------|------|
| 01051 LEAD, TOTAL (UG/L AS PB) | 01/11/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/11/77-07/06/77 | 4 | 30. | 35. | 60. | 20. | 300. | 17.321 | ** | ** | ** | ** |
| 01062 MOLYBDENUM, TOTAL (UG/L AS MO) | 01/11/77-07/06/77 | 4 ## | 5. | 11.75 | 32. | 5. | 182.25 | 13.5 | ** | ** | ** | ** |
| 01067 NICKEL, TOTAL (UG/L AS NI) | 01/11/77-07/06/77 | 4 | 29.5 | 59.75 | 175. | 5. | 6124.917 | 78.262 | ** | ** | ** | ** |
| 01082 STRONTIUM, TOTAL (UG/L AS SR) | 01/11/77-07/06/77 | 4 | 2704.5 | 3266.75 | 6059. | 1599. | 3791106.917 | 1947.077 | ** | ** | ** | ** |
| 01087 VANADIUM, TOTAL (UG/L AS V) | 01/11/77-07/06/77 | 4 ## | 5. | 6.25 | 10. | 5. | 6.25 | 2.5 | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 01/11/77-07/06/77 | 4 | 31. | 39.75 | 92. | 5. | 1657.583 | 40.713 | ** | ** | ** | ** |
| 01105 ALUMINUM, TOTAL (UG/L AS AL) | 01/11/77-07/06/77 | 4 | 320. | 1209.75 | 4099. | 100. | 3721473.583 | 1929.112 | ** | ** | ** | ** |
| 01132 LITHIUM, TOTAL (UG/L AS LI) | 01/11/77-07/06/77 | 4 | 35.5 | 33.25 | 52. | 10. | 482.25 | 21.96 | ** | ** | ** | ** |
| 01147 SELENIUM, TOTAL (UG/L AS SE) | 01/11/77-07/06/77 | 4 ## | 1. | 0.875 | 1. | 0.5 | 0.063 | 0.25 | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 01/11/77-07/06/77 | 4 | 650.5 | 658.75 | 749. | 585. | 4881.583 | 69.868 | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 01/11/77-07/06/77 | 4 | 729.5 | 745.5 | 859. | 664. | 7999. | 89.437 | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 07/01/76-07/06/77 | 7 ## | 0.005 | 0.006 | 0.01 | 0.005 | 0. | 0.002 | ** | ** | ** | ** |
| 71900 MERCURY, TOTAL (UG/L AS HG) | 01/11/77-07/06/77 | 4 | 0.3 | 0.45 | 1.1 | 0.1 | 0.197 | 0.443 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0139

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00400 PH | Fresh Chronic | 9. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00403 PH, LAB | Fresh Chronic | 9. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 4 | 4 | 1.00 | 1 | 1 | 1.00 | 2 | 2 | 1.00 | 1 | 1 | 1.00 | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01002 ARSENIC, TOTAL | Fresh Acute | 360. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01012 BERYLLIUM, TOTAL | Fresh Acute | 130. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 4. | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 5. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01034 CHROMIUM, TOTAL | Drinking Water | 100. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 4 | 1 | 0.25 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 1 | 1.00 | | | |
| | Drinking Water | 1300. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01051 LEAD, TOTAL | Fresh Acute | 82. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 15. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01067 NICKEL, TOTAL | Fresh Acute | 1400. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 4 | 1 | 0.25 | 1 | 0 | 0.00 | 2 | 1 | 0.50 | 1 | 0 | 0.00 | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01147 SELENIUM, TOTAL | Fresh Acute | 20. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0140

NPS Station ID: BICA0140
 Location: YELLOWTAIL RESERVOIR
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010014
 RF3 Index: 10080010000102.65
 Description:

LAT/LON: 45.274170/-107.999171

Depth of Water: 160
 Elevation: 0

RF1 Mile Point: 7.080
 RF3 Mile Point: 2.74

Agency: 11EPALES
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 561406
 Within Park Boundary: Yes

Date Created: 01/14/76

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.17

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0140

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|--------------------------------------------------|-------------------|--------|-------|---------|---------|----------|------------|---------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 22 | 16.9 | 14.364 | 21.9 | 2.7 | 47.597 | 6.899 | 2.92 | 8.45 | 21.3 | 21.67 |
| 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 22 | 100. | 100.182 | 101. | 97. | 0.727 | 0.853 | 100. | 100. | 101. | 101. |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 3 | 192. | 176. | 240. | 96. | 5376. | 73.321 | ** | ** | ** | ** |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 22 | 481.5 | 482.955 | 621. | 369. | 2444.807 | 49.445 | 425.3 | 462. | 511.5 | 536.7 |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 22 | 7. | 8.073 | 11.6 | 5.2 | 4.631 | 2.152 | 5.8 | 6.35 | 10.6 | 11.08 |
| 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 22 | 8.1 | 8.12 | 8.4 | 7.9 | 0.017 | 0.131 | 7.93 | 8. | 8.2 | 8.34 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 05/22/75-10/17/75 | 22 | 8.1 | 8.102 | 8.4 | 7.9 | 0.017 | 0.132 | 7.93 | 8. | 8.2 | 8.34 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/22/75-10/17/75 | 22 | 0.008 | 0.008 | 0.013 | 0.004 | 0. | 0.002 | 0.005 | 0.006 | 0.01 | 0.012 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/22/75-10/17/75 | 22 | 138.5 | 143.455 | 180. | 110. | 727.212 | 26.967 | 110.3 | 112. | 173.75 | 179.1 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 22 ## | 0.01 | 0.02 | 0.06 | 0.01 | 0. | 0.015 | 0.01 | 0.01 | 0.03 | 0.047 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 22 ## | 0.1 | 0.15 | 0.3 | 0.1 | 0.005 | 0.067 | 0.1 | 0.1 | 0.2 | 0.27 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 22 | 0.26 | 0.278 | 0.43 | 0.18 | 0.006 | 0.077 | 0.2 | 0.215 | 0.34 | 0.421 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 22 | 0.019 | 0.02 | 0.024 | 0.016 | 0. | 0.002 | 0.016 | 0.018 | 0.022 | 0.023 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 22 | 0.015 | 0.015 | 0.021 | 0.011 | 0. | 0.002 | 0.013 | 0.013 | 0.016 | 0.019 |
| 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 3 | 1.9 | 1.867 | 2.1 | 1.6 | 0.063 | 0.252 | ** | ** | ** | ** |
| 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 3 | 166. | 441.667 | 999. | 160. | 232974.333 | 482.674 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0140

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|----|---|---------------------|---|---|---------------------|--|--|---------------|--|--|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 22 | 0 | 0.00 | 14 | 0 | 0.00 | 8 | 0 | 0.00 | | | | | |
| 00400 | PH | Fresh Chronic | 9. | 22 | 0 | 0.00 | 14 | 0 | 0.00 | 8 | 0 | 0.00 | | | | | |
| | | Other-Lo Lim. | 6.5 | 22 | 0 | 0.00 | 14 | 0 | 0.00 | 8 | 0 | 0.00 | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 22 | 0 | 0.00 | 14 | 0 | 0.00 | 8 | 0 | 0.00 | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0141

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0141 Location: M38070 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE DEEP CREEK SE MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.274198/-108.251892 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_117 /1037438 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0141

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 880. | 880. | 880. | 880. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 85.5 | 85.5 | 85.5 | 85.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 34.6 | 34.6 | 34.6 | 34.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 309. | 309. | 309. | 309. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 48. | 48. | 48. | 48. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 68. | 68. | 68. | 68. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 544. | 544. | 544. | 544. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 420. | 420. | 420. | 420. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 716. | 716. | 716. | 716. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.63 | 0.63 | 0.63 | 0.63 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0141

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0142

NPS Station ID: BICA0142

Location: BIGHORN LAKE 1/2 MILE WEST OF BLACK CANYON

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIG HORN CO. LAKE APPROXIMATELY 1/2 MILE WEST FROM THE MOUTH OF BLACK CANYON. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE

LAT/LON: 45.275670/-108.018059

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_EPA_6E

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 12/20/97

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0142

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 3 | 2.44 | 3.233 | 4.88 | 2.38 | 2.035 | 1.426 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 2.1 | 3.867 | 7.9 | 1.6 | 12.263 | 3.502 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0143

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|------------------------|--|
| NPS Station ID: BICA0143 | | LAT/LON: 45.275726/-108.018142 | | Agency: 11NPSWRD | | Date Created: 02/21/98 | |
| Location: BIGHORN LAKE NEAR BLACK CANYON | | | | FIPS State/County: 30003 MONTANA/BIG HORN | | | |
| Station Type: /RESERV/TYPA/AMBNT | | | | STORET Station ID(s): BICA_MFG_B | | | |
| RMI-Indexes: | | | | Within Park Boundary: Yes | | | |
| RMI-Miles: | | | | | | | |
| HUC: 10080010 | | Depth of Water: 0 | | Aquifer: | | | |
| Major Basin: MISSOURI RIVER | | Elevation: 0 | | Water Body Id: | | | |
| Minor Basin: YELLOWSTONE RIVER | | | | ECO Region: | | | |
| RF1 Index: 10080010 | | RF1 Mile Point: 0.000 | | Distance from RF1: 4.10 | | On/Off RF1: | |
| RF3 Index: 10080014004800.00 | | RF3 Mile Point: 0.75 | | Distance from RF3: 0.35 | | On/Off RF3: | |
| Description: | | | | | | | |
| THE STATION IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIG HORN CO. LAKE NEAR BLACK CANYON. SAMPLES FOR THIS SITE WERE COLLECTED FROM ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516. | | 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE | | | | | |

Parameter Inventory for Station: BICA0143

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 500 | 15.6 | 14.082 | 23.3 | 3.3 | 24.827 | 4.983 | 5.6 | 11.1 | 17.8 | 19.4 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 06/18/70-05/16/72 | 4 | 23.95 | 23.375 | 27.8 | 17.8 | 17.109 | 4.136 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 06/18/70-11/03/70 | 23 | 5.6 | 5.957 | 8.8 | 2.6 | 3.043 | 1.745 | 3.96 | 4.6 | 7.6 | 8.72 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0143

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 23 | 2 | 0.09 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | 15 | 2 | 0.13 | 4 | 0 | 0.00 | 4 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0144

NPS Station ID: BICA0144
 Location: 129654
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.277505/-107.909393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_076 /7020705
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0144

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 1 | 9.5 | 9.5 | 9.5 | 9.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 1 | 500. | 500. | 500. | 500. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.9 | 7.9 | 7.9 | 7.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.9 | 7.9 | 7.9 | 7.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/29/78-10/29/78 | 1 | 0.013 | 0.013 | 0.013 | 0.013 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 10/29/78-10/29/78 | 1 | 77.5 | 77.5 | 77.5 | 77.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 1 | 23.9 | 23.9 | 23.9 | 23.9 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 1 | 2.3 | 2.3 | 2.3 | 2.3 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 1 | 1.2 | 1.2 | 1.2 | 1.2 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 1 | 271. | 271. | 271. | 271. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 1 | 22. | 22. | 22. | 22. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 1 | 157. | 157. | 157. | 157. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0144

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 1 | 243. | 243. | 243. | 243. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 1 | 111. | 111. | 111. | 111. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 1 | 6300. | 6300. | 6300. | 6300. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 1 | 3.96 | 3.96 | 3.96 | 3.96 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0144

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0145

NPS Station ID: BICA0145
 Location: M38079
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.277505/-108.178892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_131 /1037447
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0145

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 86. | 86. | 86. | 86. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 49.3 | 49.3 | 49.3 | 49.3 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 505. | 505. | 505. | 505. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 64. | 64. | 64. | 64. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 85. | 85. | 85. | 85. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 687. | 687. | 687. | 687. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 322. | 322. | 322. | 322. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 5.09 | 5.09 | 5.09 | 5.09 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0145

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0146

NPS Station ID: BICA0146
 Location: 129614
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.277809/-107.778116

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_085 /7020645
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0146

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 50000. | 50000. | 50000. | 50000. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 12.3 | 12.3 | 12.3 | 12.3 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 490. | 490. | 490. | 490. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 148. | 148. | 148. | 148. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 24. | 24. | 24. | 24. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 3600. | 3600. | 3600. | 3600. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0146

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 63. | 63. | 63. | 63. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 164. | 164. | 164. | 164. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 359. | 359. | 359. | 359. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 600. | 600. | 600. | 600. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 58.8 | 58.8 | 58.8 | 58.8 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0146

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0147

NPS Station ID: BICA0147
 Location: 129653
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.278310/-107.911115

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_075 /7020703
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0147

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/29/78 | 2 | 7.25 | 7.25 | 10. | 4.5 | 15.125 | 3.889 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/29/78 | 2 | 925. | 925. | 1200. | 650. | 151250. | 388.909 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/29/78 | 2 | 7.65 | 7.65 | 7.7 | 7.6 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/29/78 | 2 | 7.647 | 7.647 | 7.7 | 7.6 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/29/78 | 2 | 0.023 | 0.023 | 0.025 | 0.02 | 0. | 0.004 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/29/78 | 2 ## | 0.181 | 0.181 | 0.2 | 0.162 | 0.001 | 0.027 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/29/78 | 2 | 51.2 | 51.2 | 61.4 | 41. | 208.08 | 14.425 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/29/78 | 2 | 31.55 | 31.55 | 56.7 | 6.4 | 1265.045 | 35.567 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/29/78 | 2 | 4.3 | 4.3 | 6.6 | 2. | 10.58 | 3.253 | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/29/78 | 2 | 165.5 | 165.5 | 277. | 54. | 24864.5 | 157.685 | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/29/78 | 2 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/29/78 | 2 | 102.5 | 102.5 | 156. | 49. | 5724.5 | 75.66 | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/29/78 | 2 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/29/78 | 2 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/29/78 | 2 | 8.5 | 8.5 | 10. | 7. | 4.5 | 2.121 | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/29/78 | 2 | 558. | 558. | 1035. | 81. | 455058. | 674.58 | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/29/78 | 2 | 409. | 409. | 804. | 14. | 312050. | 558.614 | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/29/78 | 2 ## | 3. | 3. | 4. | 2. | 2. | 1.414 | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/29/78 | 2 ## | 7.5 | 7.5 | 13. | 2. | 60.5 | 7.778 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0147

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|--------|---------|---------|-----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/29/78 | 2 ## | 1.5 | 1.5 | 2. | 1. | 0.5 | 0.707 | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/29/78 | 2 | 1130.5 | 1130.5 | 1349. | 912. | 95484.5 | 309.006 | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/29/78 | 2 ## | 4. | 4. | 6. | 2. | 8. | 2.828 | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/29/78 | 2 | 37. | 37. | 41. | 33. | 32. | 5.657 | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/29/78 | 2 | 454. | 454. | 839. | 69. | 296450. | 544.472 | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/29/78 | 2 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/29/78 | 2 | 38. | 38. | 64. | 12. | 1352. | 36.77 | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/29/78 | 2 | 5800. | 5800. | 8700. | 2900. | 16820000. | 4101.219 | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/29/78 | 2 | 6. | 6. | 7. | 5. | 2. | 1.414 | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/29/78 | 2 ## | 3.5 | 3.5 | 6. | 1. | 12.5 | 3.536 | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/29/78 | 2 ## | 0.75 | 0.75 | 1. | 0.5 | 0.125 | 0.354 | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/29/78 | 2 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/29/78 | 2 | 10.93 | 10.93 | 17.28 | 4.58 | 80.645 | 8.98 | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/29/78 | 2 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/29/78 | 2 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0147

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0148

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0148 Location: SOAP CREEK JUST ABOVE POND DISCHARGE Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080015003505.99 Description: COMPLIANCE MONITORING | LAT/LON: 45.278892/-107.770005 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 7.70 | Agency: 21MTHDWQ FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): 2267SO02 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.09 |
| | | Date Created: 10/12/85 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0148

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00400 PH (STANDARD UNITS) | 03/02/84-03/02/84 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 03/02/84-03/02/84 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/02/84-03/02/84 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |
| 00745 SULFIDE, TOTAL (MG/L AS S) | 03/02/84-03/02/84 | 1 ## | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0148

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | | |
|-----------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|--|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0149

NPS Station ID: BICA0149
 Location: SOAP CREEK 200 YDS BELOW POND DISCHARGE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015061900.00
 Description:
 COMPLIANCE MONITORING

LAT/LON: 45.282503/-107.775005

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.43

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2267SO03
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.11

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0149

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00400 PH (STANDARD UNITS) | 03/02/84-03/02/84 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 03/02/84-03/02/84 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/02/84-03/02/84 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |
| 00745 SULFIDE, TOTAL (MG/L AS S) | 03/02/84-03/02/84 | 1 ## | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0149

| Parameter | | Std. Type | Std. Value | Total | Exceed | Prop. | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----|---------------|------------|-------|----------|-----------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | Obs | Standard | Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0150

NPS Station ID: BICA0150
 Location: 129622
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.282503/-107.858115

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_070 /7020660
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0150

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.9 | 7.9 | 7.9 | 7.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.9 | 7.9 | 7.9 | 7.9 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.013 | 0.013 | 0.013 | 0.013 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 42.1 | 42.1 | 42.1 | 42.1 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 1 | 47.7 | 47.7 | 47.7 | 47.7 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 2.6 | 2.6 | 2.6 | 2.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 113. | 113. | 113. | 113. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 83. | 83. | 83. | 83. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 51. | 51. | 51. | 51. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0150

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 781. | 781. | 781. | 781. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 7400. | 7400. | 7400. | 7400. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 9.94 | 9.94 | 9.94 | 9.94 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0150

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0151

NPS Station ID: BICA0151
 Location: M38073
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.283309/-108.216892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_130 /1037441
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0151

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 625. | 625. | 625. | 625. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 87.2 | 87.2 | 87.2 | 87.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 5.5 | 5.5 | 5.5 | 5.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 208. | 208. | 208. | 208. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 67. | 67. | 67. | 67. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 122. | 122. | 122. | 122. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 766. | 766. | 766. | 766. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 171. | 171. | 171. | 171. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.74 | 0.74 | 0.74 | 0.74 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0151

| Parameter | Std. Type | Std. Value | Total | | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|--|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0152

NPS Station ID: BICA0152 LAT/LON: 45.284920/-107.963920

Location: SITE 19 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO.

A SPRING LOCATED APPROXIMATELY 1.5 MILES SOUTHWEST OF YELLOWTAIL

THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU

ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS

RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE

RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406)

AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_USGS_SPR19

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0152

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 46. | 46. | 48. | 44. | 8. | 2.828 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 496.5 | 496.5 | 500. | 493. | 24.5 | 4.95 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 7.9 | 7.9 | 8.1 | 7.7 | 0.08 | 0.283 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 7.855 | 7.855 | 8.1 | 7.7 | 0.084 | 0.29 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/15/67-04/08/70 | 2 | 0.014 | 0.014 | 0.02 | 0.008 | 0. | 0.008 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 261.5 | 261.5 | 267. | 256. | 60.5 | 7.778 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 318.5 | 318.5 | 325. | 312. | 84.5 | 9.192 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 266.5 | 266.5 | 267. | 266. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 10.5 | 10.5 | 11. | 10. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 12/15/67-04/08/70 | 2 | 64.5 | 64.5 | 65. | 64. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 27. | 27. | 28. | 26. | 2. | 1.414 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 12/15/67-04/08/70 | 2 | 2.2 | 2.2 | 2.2 | 2.2 | 0. | 0. | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 0.03 | 0.03 | 0.06 | 0. | 0.002 | 0.042 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 0.75 | 0.75 | 0.8 | 0.7 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 15. | 15. | 16. | 14. | 2. | 1.414 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 0.15 | 0.15 | 0.3 | 0. | 0.045 | 0.212 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 12/15/67-04/08/70 | 2 | 8.85 | 8.85 | 12. | 5.7 | 19.845 | 4.455 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 1 | 285. | 285. | 285. | 285. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0152

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 281. | 281. | 284. | 278. | 18. | 4.243 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 3.7 | 3.7 | 3.7 | 3.7 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0152

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0153

NPS Station ID: BICA0153 LAT/LON: 45.287282/-107.974560

Location: SITE 9 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO.

A SPRING LOCATED APPROXIMATELY 1.5 MILES SOUTHWEST OF YELLOWTAIL

THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU

ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS

RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE

RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406)

AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_USGS_SPR9

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0153

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 45. | 45. | 46. | 44. | 2. | 1.414 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 503. | 503. | 511. | 495. | 128. | 11.314 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 8.25 | 8.25 | 8.3 | 8.2 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 8.247 | 8.247 | 8.3 | 8.2 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/15/67-04/08/70 | 2 | 0.006 | 0.006 | 0.006 | 0.005 | 0. | 0.001 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 262.5 | 262.5 | 264. | 261. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 310. | 310. | 318. | 302. | 128. | 11.314 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 5. | 5. | 10. | 0. | 50. | 7.071 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 274.5 | 274.5 | 285. | 264. | 220.5 | 14.849 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 15. | 15. | 25. | 5. | 200. | 14.142 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 12/15/67-04/08/70 | 2 | 55.5 | 55.5 | 60. | 51. | 40.5 | 6.364 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 34. | 34. | 35. | 33. | 2. | 1.414 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 12/15/67-04/08/70 | 2 | 2.2 | 2.2 | 2.3 | 2.1 | 0.02 | 0.141 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 0.03 | 0.03 | 0.06 | 0. | 0.002 | 0.042 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 1.25 | 1.25 | 1.6 | 0.9 | 0.245 | 0.495 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 4.5 | 4.5 | 7. | 2. | 12.5 | 3.536 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 0.3 | 0.3 | 0.5 | 0.1 | 0.08 | 0.283 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 12/15/67-04/08/70 | 2 | 8.85 | 8.85 | 12. | 5.7 | 19.845 | 4.455 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 1 | 291. | 291. | 291. | 291. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0153

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 286. | 286. | 290. | 282. | 32. | 5.657 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 1.85 | 1.85 | 2.1 | 1.6 | 0.125 | 0.354 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0153

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0154

NPS Station ID: BICA0154
 Location: M38089
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.288115/-108.023893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_133 /1037457
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0154

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 1425. | 1425. | 1425. | 1425. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 78.6 | 78.6 | 78.6 | 78.6 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 29.5 | 29.5 | 29.5 | 29.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 129. | 129. | 129. | 129. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 33. | 33. | 33. | 33. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 246. | 246. | 246. | 246. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 633. | 633. | 633. | 633. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 133. | 133. | 133. | 133. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.3 | 0.3 | 0.3 | 0.3 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0154

| Parameter | Std. Type | Std. Value | Total | | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|--|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | 82. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Drinking Water | 15. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | 1400. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 120. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | 20. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Drinking Water | | | | | | | | | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | | | | | | | | | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | | | | | | | | | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0155

NPS Station ID: BICA0155
 Location: M38080
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.288309/-108.157503

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_132 /1037448
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM
 AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE
 FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION
 DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE
 INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME.
 THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE
 ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE
 SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0155

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 580. | 580. | 580. | 580. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.3 | 7.3 | 7.3 | 7.3 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 89.9 | 89.9 | 89.9 | 89.9 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 51.4 | 51.4 | 51.4 | 51.4 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 365. | 365. | 365. | 365. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 65. | 65. | 65. | 65. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 85. | 85. | 85. | 85. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 806. | 806. | 806. | 806. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 463. | 463. | 463. | 463. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.52 | 0.52 | 0.52 | 0.52 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0155

| Parameter | Std. Type | Std. Value | Total | | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|--|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0156

NPS Station ID: BICA0156
 Location: M38081
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.289392/-108.157198

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_127 /1037449
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0156

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 670. | 670. | 670. | 670. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 84.7 | 84.7 | 84.7 | 84.7 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 48.9 | 48.9 | 48.9 | 48.9 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 354. | 354. | 354. | 354. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 65. | 65. | 65. | 65. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 ## | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 ## | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 260. | 260. | 260. | 260. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 1.52 | 1.52 | 1.52 | 1.52 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0156

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| | Drinking Water | 15. | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0157

NPS Station ID: BICA0157
 Location: 129615
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.290003/-107.778893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_006 /7020647
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0157

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 11.5 | 11.5 | 11.5 | 11.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 2300. | 2300. | 2300. | 2300. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 | 0.372 | 0.372 | 0.372 | 0.372 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 10/15/78-10/15/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 3.8 | 3.8 | 3.8 | 3.8 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 3.8 | 3.8 | 3.8 | 3.8 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 1118. | 1118. | 1118. | 1118. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 266. | 266. | 266. | 266. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0157

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 187. | 187. | 187. | 187. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 330. | 330. | 330. | 330. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 123. | 123. | 123. | 123. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 5400. | 5400. | 5400. | 5400. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 2.6 | 2.6 | 2.6 | 2.6 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0157

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0158

NPS Station ID: BICA0158 LAT/LON: 45.291281/-107.957865

Location: SITE 18 AT A SPRING DUE SOUTH OF YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. A SPRING LOCATED APPROXIMATELY ONE MILE DUE SOUTH OF YELLOWTAIL MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_BM_SPR18

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0158

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/08/70-04/08/70 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 04/08/70-04/08/70 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 04/08/70-04/08/70 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 04/08/70-04/08/70 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 04/08/70-04/08/70 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 263. | 263. | 263. | 263. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 04/08/70-04/08/70 | 1 | 321. | 321. | 321. | 321. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 263. | 263. | 263. | 263. | 0. | 0. | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 04/08/70-04/08/70 | 1 | 64. | 64. | 64. | 64. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS Mg) | 04/08/70-04/08/70 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 04/08/70-04/08/70 | 1 | 1.9 | 1.9 | 1.9 | 1.9 | 0. | 0. | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 04/08/70-04/08/70 | 1 | 0.6 | 0.6 | 0.6 | 0.6 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 04/08/70-04/08/70 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 04/08/70-04/08/70 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 04/08/70-04/08/70 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 04/08/70-04/08/70 | 1 | 284. | 284. | 284. | 284. | 0. | 0. | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 04/08/70-04/08/70 | 1 | 2.1 | 2.1 | 2.1 | 2.1 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0158

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|--------------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 71851 | NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0159

NPS Station ID: BICA0159 LAT/LON: 45.291616/-107.962893

Location: SITE 15 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. A SPRING LOCATED APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_BM_SPR15

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0159

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/08/70-04/08/70 | 1 | 48. | 48. | 48. | 48. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 04/08/70-04/08/70 | 1 | 598. | 598. | 598. | 598. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 04/08/70-04/08/70 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 04/08/70-04/08/70 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 04/08/70-04/08/70 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 258. | 258. | 258. | 258. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 04/08/70-04/08/70 | 1 | 315. | 315. | 315. | 315. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 258. | 258. | 258. | 258. | 0. | 0. | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 60. | 60. | 60. | 60. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 04/08/70-04/08/70 | 1 | 68. | 68. | 68. | 68. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS Mg) | 04/08/70-04/08/70 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 04/08/70-04/08/70 | 1 | 2.6 | 2.6 | 2.6 | 2.6 | 0. | 0. | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 04/08/70-04/08/70 | 1 | 1.2 | 1.2 | 1.2 | 1.2 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 04/08/70-04/08/70 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 04/08/70-04/08/70 | 1 | 72. | 72. | 72. | 72. | 0. | 0. | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 04/08/70-04/08/70 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 04/08/70-04/08/70 | 1 | 5.7 | 5.7 | 5.7 | 5.7 | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 04/08/70-04/08/70 | 1 | 348. | 348. | 348. | 348. | 0. | 0. | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 04/08/70-04/08/70 | 1 | 2.8 | 2.8 | 2.8 | 2.8 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0159

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | 860. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0160

NPS Station ID: BICA0160
 Location: 129623
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.293615/-107.868615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_089 /7020662
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0160

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 1 | 88.6 | 88.6 | 88.6 | 88.6 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 5.5 | 5.5 | 5.5 | 5.5 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 169. | 169. | 169. | 169. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 238. | 238. | 238. | 238. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 86. | 86. | 86. | 86. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0160

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 963. | 963. | 963. | 963. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 90. | 90. | 90. | 90. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 10800. | 10800. | 10800. | 10800. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 18.8 | 18.8 | 18.8 | 18.8 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0160

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0161

NPS Station ID: BICA0161
 Location: 129652
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.293892/-107.921392

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_055 /7020701
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0161

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 1 | 700. | 700. | 700. | 700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/29/78-10/29/78 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 10/29/78-10/29/78 | 1 | 57.5 | 57.5 | 57.5 | 57.5 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 1 | 2.1 | 2.1 | 2.1 | 2.1 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 1 ## | 0.05 | 0.05 | 0.05 | 0.05 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 1 | 1.1 | 1.1 | 1.1 | 1.1 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 1 | 203. | 203. | 203. | 203. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0161

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 1 | 275. | 275. | 275. | 275. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 1 | 5600. | 5600. | 5600. | 5600. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 1 | 19. | 19. | 19. | 19. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 1 | 3.56 | 3.56 | 3.56 | 3.56 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0161

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0162

NPS Station ID: BICA0162 LAT/LON: 45.295449/-107.957170

Location: SITE 17 AT A SPRING DUE SOUTH OF YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. A SPRING LOCATED APPROXIMATELY ONE MILE DUE SOUTH OF YELLOWTAIL MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_BM_SPR17

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 17 IS AT DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON APRIL 8 1970 BY THE THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT

Parameter Inventory for Station: BICA0162

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 04/08/70-04/08/70 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 04/08/70-04/08/70 | 1 | 480. | 480. | 480. | 480. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 04/08/70-04/08/70 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 04/08/70-04/08/70 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 04/08/70-04/08/70 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 230. | 230. | 230. | 230. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 04/08/70-04/08/70 | 1 | 281. | 281. | 281. | 281. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 230. | 230. | 230. | 230. | 0. | 0. | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 04/08/70-04/08/70 | 1 | 22. | 22. | 22. | 22. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 04/08/70-04/08/70 | 1 | 51. | 51. | 51. | 51. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS Mg) | 04/08/70-04/08/70 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 04/08/70-04/08/70 | 1 | 1.8 | 1.8 | 1.8 | 1.8 | 0. | 0. | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 04/08/70-04/08/70 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 04/08/70-04/08/70 | 1 | 0.9 | 0.9 | 0.9 | 0.9 | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 04/08/70-04/08/70 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 04/08/70-04/08/70 | 1 | 33. | 33. | 33. | 33. | 0. | 0. | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 04/08/70-04/08/70 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 04/08/70-04/08/70 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 04/08/70-04/08/70 | 1 | 266. | 266. | 266. | 266. | 0. | 0. | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 04/08/70-04/08/70 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0162

| Parameter | Std. Type | Std. Value | Total | | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-------|--|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | 860. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Drinking Water | 250. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 4. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 44. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0163

NPS Station ID: BICA0163
 Location: M38088
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010
 RF3 Index: 10080014004800.00

LAT/LON: 45.295809/-108.027198

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_134 /1037456
 Within Park Boundary: Yes

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0163

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 1350. | 1350. | 1350. | 1350. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 78. | 78. | 78. | 78. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 29.7 | 29.7 | 29.7 | 29.7 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 229. | 229. | 229. | 229. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 219. | 219. | 219. | 219. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 558. | 558. | 558. | 558. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.74 | 0.74 | 0.74 | 0.74 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0163

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0164

NPS Station ID: BICA0164
 Location: SOAP CREEK 400 YDS BELOW POND DISCHARGE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015061900.00
 Description:
 COMPLIANCE MONITORING

LAT/LON: 45.296949/-107.775005

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.38

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2267SO04
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.16

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0164

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00400 PH (STANDARD UNITS) | 03/02/84-03/02/84 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 03/02/84-03/02/84 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/02/84-03/02/84 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00745 SULFIDE, TOTAL (MG/L AS S) | 03/02/84-03/02/84 | 1 ## | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0164

| Parameter | | Std. Type | Std. Value | Total | Exceed | Prop. | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----|---------------|------------|-------|----------|-----------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | Obs | Standard | Exceeding | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0165

NPS Station ID: BICA0165 LAT/LON: 45.298449/-107.967921

Location: SITE 14 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO.

A SPRING LOCATED APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL

THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU

ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS

RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE

RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406)

AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_USGS_SPR14

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: BICA0165

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 46. | 46. | 48. | 44. | 8. | 2.828 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 502.5 | 502.5 | 510. | 495. | 112.5 | 10.607 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 8.15 | 8.15 | 8.2 | 8.1 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 8.147 | 8.147 | 8.2 | 8.1 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/15/67-04/08/70 | 2 | 0.007 | 0.007 | 0.008 | 0.006 | 0. | 0.001 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 247. | 247. | 248. | 246. | 2. | 1.414 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 301.5 | 301.5 | 303. | 300. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 259.5 | 259.5 | 274. | 245. | 420.5 | 20.506 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 22. | 22. | 26. | 18. | 32. | 5.657 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 12/15/67-04/08/70 | 2 | 56. | 56. | 57. | 55. | 2. | 1.414 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 31.5 | 31.5 | 32. | 31. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 12/15/67-04/08/70 | 2 | 2.35 | 2.35 | 2.4 | 2.3 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 0.03 | 0.03 | 0.06 | 0. | 0.002 | 0.042 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 1.1 | 1.1 | 1.3 | 0.9 | 0.08 | 0.283 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 2.5 | 2.5 | 3. | 2. | 0.5 | 0.707 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 28.5 | 28.5 | 32. | 25. | 24.5 | 4.95 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 0.3 | 0.3 | 0.5 | 0.1 | 0.08 | 0.283 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 12/15/67-04/08/70 | 2 | 9.65 | 9.65 | 15. | 4.3 | 57.245 | 7.566 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 12/15/67-12/15/67 | 1 | 284. | 284. | 284. | 284. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0165

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 282.5 | 282.5 | 286. | 279. | 24.5 | 4.95 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 2.05 | 2.05 | 2.2 | 1.9 | 0.045 | 0.212 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0165

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0166

NPS Station ID: BICA0166
 Location: 129625
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.299199/-107.818115

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_094 /7020666
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0166

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 1000. | 1000. | 1000. | 1000. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 58.2 | 58.2 | 58.2 | 58.2 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/15/78-10/15/78 | 1 | 99.2 | 99.2 | 99.2 | 99.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 4.6 | 4.6 | 4.6 | 4.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 109. | 109. | 109. | 109. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 208. | 208. | 208. | 208. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 127. | 127. | 127. | 127. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0166

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 820. | 820. | 820. | 820. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 26. | 26. | 26. | 26. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 93. | 93. | 93. | 93. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 39. | 39. | 39. | 39. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 8500. | 8500. | 8500. | 8500. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 14.9 | 14.9 | 14.9 | 14.9 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0166

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0167

NPS Station ID: BICA0167
 Location: 129655
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.299392/-107.884198

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_088 /7020707
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0167

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 1 | 850. | 850. | 850. | 850. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/29/78-10/29/78 | 1 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 1 | 37.9 | 37.9 | 37.9 | 37.9 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 1 | 1.6 | 1.6 | 1.6 | 1.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 1 | 105. | 105. | 105. | 105. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 1 | 63. | 63. | 63. | 63. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 1 | 222. | 222. | 222. | 222. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0167

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 1 | 1561. | 1561. | 1561. | 1561. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 1 | 123. | 123. | 123. | 123. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 1 | 7200. | 7200. | 7200. | 7200. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 1 | 6.2 | 6.2 | 6.2 | 6.2 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0167

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0168

NPS Station ID: BICA0168
 Location: 129606
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.299698/-107.784698

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_093 /7020635
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0168

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/14/78-10/14/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/14/78-10/14/78 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/14/78-10/14/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/14/78-10/14/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/14/78-10/14/78 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/14/78-10/14/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 10/14/78-10/14/78 | 1 | 97.8 | 97.8 | 97.8 | 97.8 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/14/78-10/14/78 | 1 | 4.3 | 4.3 | 4.3 | 4.3 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/14/78-10/14/78 | 1 | 41.1 | 41.1 | 41.1 | 41.1 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/14/78-10/14/78 | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/14/78-10/14/78 | 1 | 130. | 130. | 130. | 130. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/14/78-10/14/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/14/78-10/14/78 | 1 | 106. | 106. | 106. | 106. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/14/78-10/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/14/78-10/14/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/14/78-10/14/78 | 1 | 73. | 73. | 73. | 73. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/14/78-10/14/78 | 1 | 50. | 50. | 50. | 50. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/14/78-10/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0168

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 10/14/78-10/14/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/14/78-10/14/78 | 1 | 681. | 681. | 681. | 681. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/14/78-10/14/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/14/78-10/14/78 | 1 | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/14/78-10/14/78 | 1 | 40. | 40. | 40. | 40. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/14/78-10/14/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/14/78-10/14/78 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/14/78-10/14/78 | 1 | 6200. | 6200. | 6200. | 6200. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/14/78-10/14/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/14/78-10/14/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/14/78-10/14/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/14/78-10/14/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/14/78-10/14/78 | 1 | 11.36 | 11.36 | 11.36 | 11.36 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/14/78-10/14/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/14/78-10/14/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0168

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0169

NPS Station ID: BICA0169 LAT/LON: 45.302226/-107.970393

Location: BIGHORN LAKE 1 MILE SOUTHWEST OF YELLOWTAIL DAM

Station Type: /RESERV/TYPA/AMBNT

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. LAKE APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL DAM. SAMPLES SURVEY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT TEL (970) 225-3516.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_USGS_BIGLA

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 02/07/98

On/Off RF1:

On/Off RF3:

7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN FOR THIS SITE WERE COLLECTED IN 1968 AND 1969 BY THE U.S. GEOLOGICAL REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525.

Parameter Inventory for Station: BICA0169

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/21/69-06/16/69 | 2 | 48. | 48. | 64. | 32. | 512. | 22.627 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 07/29/68-06/16/69 | 3 | 4. | 5.667 | 10. | 3. | 14.333 | 3.786 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 07/29/68-06/16/69 | 3 | 618. | 619. | 827. | 412. | 43057. | 207.502 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/29/68-06/16/69 | 3 | 7.7 | 7.833 | 8.2 | 7.6 | 0.103 | 0.321 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/29/68-06/16/69 | 3 | 7.7 | 7.766 | 8.2 | 7.6 | 0.11 | 0.332 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/29/68-06/16/69 | 3 | 0.02 | 0.017 | 0.025 | 0.006 | 0. | 0.01 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 07/29/68-06/16/69 | 3 | 158. | 149.333 | 169. | 121. | 632.333 | 25.146 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 07/29/68-06/16/69 | 3 | 192. | 182. | 206. | 148. | 916. | 30.265 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 07/29/68-06/16/69 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 07/29/68-06/16/69 | 3 | 201. | 219.333 | 272. | 185. | 2144.333 | 46.307 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 07/29/68-06/16/69 | 3 | 79. | 70. | 104. | 27. | 1543. | 39.281 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 07/29/68-06/16/69 | 3 | 52. | 55.333 | 68. | 46. | 129.333 | 11.372 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 07/29/68-06/16/69 | 3 | 17. | 19.667 | 25. | 17. | 21.333 | 4.619 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 07/29/68-06/16/69 | 3 | 56. | 51.333 | 80. | 18. | 977.333 | 31.262 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 07/29/68-06/16/69 | 3 | 1.7 | 1.467 | 2.1 | 0.6 | 0.603 | 0.777 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 07/29/68-06/16/69 | 3 | 2.6 | 2.733 | 4.1 | 1.5 | 1.703 | 1.305 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 07/29/68-06/16/69 | 3 | 6. | 6.667 | 12. | 2. | 25.333 | 5.033 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 07/29/68-06/16/69 | 3 | 178. | 166.667 | 262. | 60. | 10297.333 | 101.476 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 07/29/68-06/16/69 | 3 | 0.3 | 0.367 | 0.5 | 0.3 | 0.013 | 0.115 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 07/29/68-06/16/69 | 3 | 6.6 | 6.667 | 6.9 | 6.5 | 0.043 | 0.208 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 07/29/68-06/16/69 | 3 | 0.09 | 0.073 | 0.1 | 0.03 | 0.001 | 0.038 | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L | 07/29/68-06/16/69 | 3 | 405. | 414. | 578. | 259. | 25501. | 159.69 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0169

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 07/29/68-06/16/69 | 3 | 392. | 399.333 | 559. | 247. | 24376.333 | 156.129 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 07/29/68-06/16/69 | 3 | 0.4 | 0.467 | 1. | 0. | 0.253 | 0.503 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0169

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|---|------|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 3 | 1 | 0.33 | 1 | 0 | 0.00 | 1 | 1 | 1.00 | 1 | 0 | 0.00 | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 3 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0170

NPS Station ID: BICA0170 LAT/LON: 45.302420/-107.973531
 Location: SITE 1 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080010 RF1 Mile Point: 0.000
 RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75
 Description:

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_USGS_SPR1
 Within Park Boundary: Yes

Date Created: 02/07/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 1 IS AT A SPRING LOCATED APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON DECEMBER 15 1967 BY THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0170

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 12/15/67-04/08/70 | 2 | 49.5 | 49.5 | 51. | 48. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 12/15/67-12/15/67 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/15/67-04/08/70 | 2 | 523.5 | 523.5 | 535. | 512. | 264.5 | 16.263 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 12/15/67-04/08/70 | 2 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/15/67-04/08/70 | 2 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 239.5 | 239.5 | 241. | 238. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 12/15/67-04/08/70 | 2 | 292.5 | 292.5 | 294. | 291. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 12/15/67-04/08/70 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 262.5 | 262.5 | 284. | 241. | 924.5 | 30.406 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 12/15/67-04/08/70 | 2 | 43.5 | 43.5 | 45. | 42. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 12/15/67-04/08/70 | 2 | 59.5 | 59.5 | 61. | 58. | 4.5 | 2.121 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 12/15/67-04/08/70 | 2 | 33. | 33. | 34. | 32. | 2. | 1.414 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 12/15/67-04/08/70 | 2 | 2.25 | 2.25 | 2.3 | 2.2 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 12/15/67-04/08/70 | 2 | 0.03 | 0.03 | 0.06 | 0. | 0.002 | 0.042 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 12/15/67-04/08/70 | 2 | 1.25 | 1.25 | 1.3 | 1.2 | 0.005 | 0.071 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 12/15/67-04/08/70 | 2 | 1.35 | 1.35 | 2. | 0.7 | 0.845 | 0.919 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 12/15/67-04/08/70 | 2 | 48. | 48. | 54. | 42. | 72. | 8.485 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 12/15/67-04/08/70 | 2 | 0.3 | 0.3 | 0.5 | 0.1 | 0.08 | 0.283 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 12/15/67-04/08/70 | 2 | 12.05 | 12.05 | 17. | 7.1 | 49.005 | 7. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 12/15/67-12/15/67 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 12/15/67-12/15/67 | 1 | 311. | 311. | 311. | 311. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0170

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 12/15/67-04/08/70 | 2 | 303. | 303. | 304. | 302. | 2. | 1.414 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 12/15/67-04/08/70 | 2 | 2.05 | 2.05 | 2.1 | 2. | 0.005 | 0.071 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0170

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0171

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0171 Location: 129624 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.303892/-107.872810 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_087 /7020664 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0171

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/17/78-10/17/78 | 1 | 10.5 | 10.5 | 10.5 | 10.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/17/78-10/17/78 | 1 | 800. | 800. | 800. | 800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/17/78-10/17/78 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/17/78-10/17/78 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/17/78-10/17/78 | 1 | 0.079 | 0.079 | 0.079 | 0.079 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/17/78-10/17/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/17/78-10/17/78 | 1 | 62. | 62. | 62. | 62. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/17/78-10/17/78 | 1 | 77.9 | 77.9 | 77.9 | 77.9 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/17/78-10/17/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/17/78-10/17/78 | 1 | 140. | 140. | 140. | 140. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/17/78-10/17/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/17/78-10/17/78 | 1 | 147. | 147. | 147. | 147. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/17/78-10/17/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/17/78-10/17/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/17/78-10/17/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/17/78-10/17/78 | 1 | 83. | 83. | 83. | 83. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/17/78-10/17/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/17/78-10/17/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/17/78-10/17/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0171

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/17/78-10/17/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/17/78-10/17/78 | 1 | 1054. | 1054. | 1054. | 1054. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/17/78-10/17/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/17/78-10/17/78 | 1 | 26. | 26. | 26. | 26. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/17/78-10/17/78 | 1 | 103. | 103. | 103. | 103. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/17/78-10/17/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/17/78-10/17/78 | 1 | 41. | 41. | 41. | 41. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/17/78-10/17/78 | 1 | 9200. | 9200. | 9200. | 9200. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/17/78-10/17/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/17/78-10/17/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/17/78-10/17/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/17/78-10/17/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/17/78-10/17/78 | 1 | 15.24 | 15.24 | 15.24 | 15.24 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/17/78-10/17/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/17/78-10/17/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0171

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0172

NPS Station ID: BICA0172
 Location: YELLOWTAIL RESERVOIR
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080010
 Major Basin:
 Minor Basin:
 RF1 Index: 10080010015
 RF3 Index: 10080010009200.23
 Description:

LAT/LON: 45.304448/-107.958615

Depth of Water: 999
 Elevation: 0

RF1 Mile Point: 4.250
 RF3 Mile Point: 2.15

Agency: 11EPALES
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 561407
 Within Park Boundary: Yes

Date Created: 01/14/76

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.09

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: BICA0172

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/22/75-10/17/75 | 24 | 17.35 | 13.7 | 22.1 | 1.5 | 57.107 | 7.557 | 2.6 | 5.15 | 21.05 | 21.85 |
| 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 05/22/75-10/17/75 | 24 | 100. | 100.042 | 101. | 97. | 0.998 | 0.999 | 98.5 | 100. | 101. | 101. |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 05/22/75-10/17/75 | 3 | 240. | 352. | 600. | 216. | 46272. | 215.109 | ** | ** | ** | ** |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/22/75-10/17/75 | 24 | 540. | 537.667 | 638. | 469. | 1325.797 | 36.411 | 491.5 | 511. | 561.75 | 576.5 |
| 00300 | OXYGEN, DISSOLVED MG/L | 05/22/75-10/17/75 | 24 | 6.8 | 8.017 | 11.6 | 5. | 4.99 | 2.234 | 5.4 | 6.6 | 10.55 | 11.5 |
| 00400 | PH (STANDARD UNITS) | 05/22/75-10/17/75 | 24 | 8.125 | 8.125 | 8.5 | 7.8 | 0.028 | 0.167 | 7.875 | 8. | 8.2 | 8.375 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 05/22/75-10/17/75 | 24 | 8.124 | 8.095 | 8.5 | 7.8 | 0.029 | 0.17 | 7.875 | 8. | 8.2 | 8.375 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/22/75-10/17/75 | 24 | 0.008 | 0.008 | 0.016 | 0.003 | 0. | 0.003 | 0.004 | 0.006 | 0.01 | 0.013 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 05/22/75-10/17/75 | 24 | 144. | 149.75 | 196. | 112. | 772.804 | 27.799 | 114. | 117. | 175.75 | 185. |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/22/75-10/17/75 | 24 | 0.02 | 0.025 | 0.09 | 0.01 | 0.001 | 0.023 | 0.01 | 0.01 | 0.028 | 0.075 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 05/22/75-10/17/75 | 24 | 0.2 | 0.192 | 0.6 | 0.1 | 0.014 | 0.118 | 0.1 | 0.1 | 0.275 | 0.3 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 05/22/75-10/17/75 | 24 | 0.305 | 0.335 | 0.58 | 0.22 | 0.009 | 0.094 | 0.22 | 0.29 | 0.403 | 0.48 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 05/22/75-10/17/75 | 24 | 0.021 | 0.023 | 0.041 | 0.012 | 0. | 0.007 | 0.015 | 0.018 | 0.027 | 0.037 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 05/22/75-10/17/75 | 24 | 0.016 | 0.016 | 0.031 | 0.006 | 0. | 0.006 | 0.011 | 0.011 | 0.019 | 0.027 |
| 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 05/22/75-10/17/75 | 3 | 2.1 | 2.133 | 2.7 | 1.6 | 0.303 | 0.551 | ** | ** | ** | ** |
| 72025 | DEPTH OF POND OR RESERVOIR IN FEET | 05/22/75-10/17/75 | 3 | 999. | 999. | 999. | 999. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0172

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|----|---|---------------------|---|---|---------------------|--|--|---------------|--|--|
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |
| 00400 | PH | Fresh Chronic | 9. | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |
| | | Other-Lo Lim. | 6.5 | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 24 | 0 | 0.00 | 15 | 0 | 0.00 | 9 | 0 | 0.00 | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0173

Description: 00000001 400 4500.00 R/S MNTA FORM 5975 Distance from R/S: 0.95
 THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON
 BIGHORN LAKE AT YELLOWTAIL DAM. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED
 FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH.
 THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE, BIGHORN CANYON
 NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF
 OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND
 UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0173

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00078 TRANSPARENCY, SECCHI DISC (METERS) | 05/21/75-10/17/75 | 3 | 6.1 | 8.34 | 13.44 | 5.48 | 19.604 | 4.428 | ** | ** | ** | ** |
| 32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 05/21/75-10/17/75 | 3 | 2.1 | 2.133 | 2.7 | 1.6 | 0.303 | 0.551 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0174

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0174 Location: BIGHORN LAKE AT YELLOWTAIL DAM Station Type: /RESERV/TYPA/AMBNT RMI-Indexes: RMI-Miles: HUC: 10080010 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080010 RF3 Index: 10080014004800.00 Description: THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. ON BIGHORN LAKE AT YELLOWTAIL DAM. SAMPLES FROM THIS SITE OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE | LAT/LON: 45.306560/-107.957505 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_SOLT_0 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/15/97

On/Off RF1:
On/Off RF3:

7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0174

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|------|--------|---------|---------|---------|-----------|-----------|-------|-------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/05/68-09/08/70 | 1286 | 6.9 | 9.683 | 25. | 2.2 | 33.201 | 5.762 | 4.2 | 4.975 | 14.775 | 18.3 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 05/05/68-07/28/69 | 142 | 8. | 9.817 | 22. | 4. | 17.073 | 4.132 | 4. | 8. | 12. | 16. |
| 00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 09/09/68-09/08/70 | 766 | 92. | 91.866 | 100. | 74. | 10.595 | 3.255 | 89. | 90. | 94. | 95. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 05/05/68-09/08/70 | 1260 | 910. | 899.593 | 1300. | 600. | 15982.497 | 126.422 | 735.2 | 814. | 1000. | 1050. |
| 00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L | 05/05/68-11/02/68 | 91 | 5.4 | 5.643 | 11.6 | 0.6 | 5.453 | 2.335 | 2.62 | 4.1 | 7.1 | 8.94 |
| 00406 PH, FIELD, STANDARD UNITS SU | 05/05/68-09/08/70 | 141 | 8.2 | 8.163 | 8.77 | 7.55 | 0.087 | 0.295 | 7.78 | 7.96 | 8.4 | 8.548 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 05/05/68-09/08/70 | 141 | 8.2 | 8.067 | 8.77 | 7.55 | 0.096 | 0.31 | 7.78 | 7.96 | 8.4 | 8.548 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 05/05/68-09/08/70 | 141 | 0.006 | 0.009 | 0.028 | 0.002 | 0. | 0.006 | 0.003 | 0.004 | 0.011 | 0.017 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 54 | 0.045 | 0.111 | 0.59 | 0. | 0.018 | 0.133 | 0. | 0.01 | 0.18 | 0.285 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 55 | 0.009 | 0.009 | 0.05 | 0. | 0. | 0.009 | 0. | 0.004 | 0.01 | 0.016 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 05/05/68-09/08/70 | 143 | 0.42 | 0.451 | 0.91 | 0.1 | 0.03 | 0.173 | 0.26 | 0.29 | 0.6 | 0.676 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 05/05/68-09/08/70 | 141 | 0.03 | 0.068 | 0.8 | 0. | 0.011 | 0.103 | 0. | 0. | 0.09 | 0.224 |
| 01042 COPPER, TOTAL (UG/L AS CU) | 04/15/69-08/11/69 | 16 | 1. | 0.875 | 2. | 0. | 0.25 | 0.5 | 0. | 1. | 1. | 1.3 |
| 01055 MANGANESE, TOTAL (UG/L AS MN) | 04/15/69-08/11/69 | 16 | 2. | 12.688 | 66. | 1. | 407.296 | 20.182 | 1. | 1. | 22.25 | 52. |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 04/15/69-08/11/69 | 16 | 6. | 11.125 | 42. | 0. | 140.783 | 11.865 | 1.4 | 3. | 18.75 | 31.5 |
| 32238 CHLOROPHYLL-A, PHYTOPLANKTON, FLUOROMETRIC MTH MG/M3 | 05/05/68-09/08/70 | 51 | 3.2 | 3.184 | 8.9 | 0. | 3.324 | 1.823 | 1.16 | 1.9 | 4.1 | 5.7 |
| 74010 IRON, TOTAL (MG/L AS FE) | 05/05/69-08/11/69 | 13 | 0.005 | 0.03 | 0.15 | 0.001 | 0.003 | 0.052 | 0.001 | 0.003 | 0.025 | 0.146 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0174

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|--------------------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | 50. | 142 | 0 | 0.00 | 39 | 0 | 0.00 | 64 | 0 | 0.00 | 39 | 0 | 0.00 | | | |
| 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE | 4. | 91 | 21 | 0.23 | 39 | 15 | 0.38 | 26 | 4 | 0.15 | 26 | 2 | 0.08 | | | |
| 00406 | PH, FIELD | 9. | 141 | 0 | 0.00 | 55 | 0 | 0.00 | 41 | 0 | 0.00 | 45 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 141 | 0 | 0.00 | 55 | 0 | 0.00 | 41 | 0 | 0.00 | 45 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | 1. | 55 | 0 | 0.00 | 17 | 0 | 0.00 | 18 | 0 | 0.00 | 20 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | 10. | 143 | 0 | 0.00 | 56 | 0 | 0.00 | 41 | 0 | 0.00 | 46 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | 18. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Fresh Acute | 1300. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | 120. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 16 | 0 | 0.00 | 1 | 0 | 0.00 | 10 | 0 | 0.00 | 5 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0175

NPS Station ID: BICA0175
Location: BIG HORN RIVER
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:

LAT/LON: 45.306948/-107.958338

Agency: 11EPALES
FIPS State/County: 56000 WYOMING/
STORET Station ID(s): 5614A1
Within Park Boundary: Yes

Date Created: / /

HUC: 10080010
Major Basin: O/YELLOWTAIL RESERVOIR
Minor Basin: BELO DAM 1.5 MI FRM FORT SMITH
RF1 Index: 10080010015
RF3 Index: 10080015090400.00

Depth of Water: 0
Elevation: 0

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 10.10
Distance from RF3: 0.19

On/Off RF1: OFF
On/Off RF3:

Description:
 BANK SAMPLE BELOW DAM AT END OF MEDIUM DUTY RD APPROX 1.5 MI BY ROAD FROM FT SMITH SEC 18 T6S R30E

Parameter Inventory for Station: BICA0175

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|--------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|-------|------|------|------|----|
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 10/05/74-08/02/75 | 8 | 0.04 | 0.08 | 0.368 | 0.01 | 0.014 | 0.117 | ** | ** | ** | ** |
| 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 1 ## | 0.002 | 0.002 | 0.002 | 0.002 | 0. | 0. | ** | ** | ** | ** |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 10/05/74-10/05/74 | 1 | 0.368 | 0.368 | 0.368 | 0.368 | 0. | 0. | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 10/05/74-08/02/75 | 8 | 1.2 | 1.194 | 2.2 | 0.4 | 0.47 | 0.686 | ** | ** | ** | ** |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 10/05/74-08/02/75 | 8 | 0.41 | 0.403 | 0.45 | 0.35 | 0.002 | 0.04 | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10/05/74-08/02/75 | 8 | 0.024 | 0.021 | 0.03 | 0.01 | 0. | 0.008 | ** | ** | ** | ** |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 10/05/74-08/02/75 | 8 | 0.016 | 0.015 | 0.02 | 0.01 | 0. | 0.004 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0175

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00615 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 1. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 00630 | NITRATE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 8 | 0 | 0.00 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter.

Station Inventory for Station: BICA0176

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|------------------------|
| NPS Station ID: BICA0176 | LAT/LON: 45.307142/-107.972977 | Agency: 11NPSWRD | Date Created: 02/21/98 |
| Location: BIGHORN LAKE NEAR YELLOWTAIL DAM | | FIPS State/County: 30003 MONTANA/BIG HORN | |
| Station Type: /RESERV/TYPA/AMBNT | | STORET Station ID(s): BICA_MFG_A | |
| RMI-Indexes: | | Within Park Boundary: Yes | |
| RMI-Miles: | | | |
| HUC: 10080010 | Depth of Water: 0 | Aquifer: | |
| Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id: | |
| Minor Basin: YELLOWSTONE RIVER | | ECO Region: | |
| RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1: |
| RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3: |
| Description: THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR YELLOWTAIL DAM. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516. | | | |

Parameter Inventory for Station: BICA0176

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|--------|---------|---------|----------|-----------|------|--------|------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 607 | 13.3 | 12.596 | 22.8 | 2.8 | 32.517 | 5.702 | 3.9 | 7.5 | 17.8 | 18.92 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 05/21/70-10/20/72 | 22 | 20.7 | 19.018 | 31.2 | 4.4 | 48.859 | 6.99 | 6.74 | 14.725 | 24.1 | 26.1 |
| 00300 OXYGEN, DISSOLVED MG/L | 05/21/70-12/02/70 | 37 | 6.4 | 6.422 | 9.4 | 2.6 | 3.353 | 1.831 | 3.92 | 4.9 | 8.3 | 8.64 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0176

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 37 | 4 | 0.11 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| | | | | | | 25 | 4 | 0.16 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0177

NPS Station ID: BICA0177 LAT/LON: 45.307531/-107.957366

Location: EFFLUENT WATERS (DISCHARGE) FROM YELLOWTAIL DAM

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 10080010

Major Basin: MISSOURI RIVER

Minor Basin: YELLOWSTONE RIVER

RF1 Index: 10080010

RF3 Index: 10080014004800.00

Description:

THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO.

BIGHORN RIVER AT THE BASE OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE

OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH

STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO

CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX

AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.75

Agency: 11NPSWRD

FIPS State/County: 30003 MONTANA/BIG HORN

STORET Station ID(s): BICA_SOLT_EFFLU

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 4.10

Distance from RF3: 0.35

Date Created: 11/15/97

On/Off RF1:

On/Off RF3:

7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE
WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION
1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL
(MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT
7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED
DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0177

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|-------|--------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/22/68-08/11/69 | 38 | 5.1 | 6.411 | 16.2 | 1.8 | 16.356 | 4.044 | 2.2 | 3.25 | 8.575 | 13.98 |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 02/22/68-08/18/69 | 44 | 9. | 11.273 | 36. | 0. | 63.645 | 7.978 | 4. | 4.5 | 16. | 22. |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 02/22/68-08/18/69 | 45 | 887. | 874.044 | 971. | 669. | 4519.225 | 67.225 | 760.4 | 847.5 | 919. | 932.4 |
| 00403 PH, LAB, STANDARD UNITS SU | 02/22/68-08/18/69 | 45 | 8.2 | 8.1 | 8.4 | 7.1 | 0.094 | 0.307 | 7.66 | 8.05 | 8.3 | 8.4 |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 02/22/68-08/18/69 | 45 | 8.2 | 7.937 | 8.4 | 7.1 | 0.121 | 0.348 | 7.66 | 8.05 | 8.3 | 8.4 |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/22/68-08/18/69 | 45 | 0.006 | 0.012 | 0.079 | 0.004 | 0. | 0.016 | 0.004 | 0.005 | 0.009 | 0.022 |
| 00406 PH, FIELD, STANDARD UNITS SU | 02/22/68-08/11/69 | 33 | 7.99 | 7.859 | 8.31 | 6.81 | 0.121 | 0.347 | 7.206 | 7.75 | 8.09 | 8.148 |
| 00406 CONVERTED PH, FIELD, STANDARD UNITS | 02/22/68-08/11/69 | 33 | 7.99 | 7.66 | 8.31 | 6.81 | 0.162 | 0.402 | 7.206 | 7.75 | 8.09 | 8.148 |
| 00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 02/22/68-08/11/69 | 33 | 0.01 | 0.022 | 0.155 | 0.005 | 0.001 | 0.032 | 0.007 | 0.008 | 0.018 | 0.068 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 02/22/68-08/18/69 | 46 | 190. | 189.5 | 242. | 137. | 337.811 | 18.38 | 171. | 178.5 | 198.5 | 211.2 |
| 00600 NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/11/69 | 44 | 0.56 | 0.655 | 1.43 | 0.06 | 0.151 | 0.388 | 0.17 | 0.35 | 0.943 | 1.255 |
| 00602 NITROGEN, DISSOLVED (MG/L AS N) | 02/22/68-08/11/69 | 36 | 0.44 | 0.458 | 1.67 | 0.03 | 0.105 | 0.324 | 0.089 | 0.203 | 0.655 | 0.832 |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 41 | 0.18 | 0.197 | 0.55 | 0. | 0.019 | 0.138 | 0.012 | 0.09 | 0.305 | 0.368 |
| 00615 NITRITE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 41 | 0.005 | 0.005 | 0.017 | 0. | 0. | 0.004 | 0.001 | 0.002 | 0.006 | 0.01 |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 02/22/68-08/18/69 | 42 | 0.635 | 0.545 | 0.83 | 0. | 0.044 | 0.21 | 0.197 | 0.413 | 0.678 | 0.73 |
| 00650 PHOSPHATE, TOTAL (MG/L AS PO4) | 02/22/68-08/18/69 | 45 | 0.07 | 0.096 | 0.35 | 0. | 0.007 | 0.084 | 0. | 0.04 | 0.14 | 0.24 |
| 00653 PHOSPHATE, TOTAL SOLUBLE (MG/L) | 02/22/68-08/18/69 | 39 | 0.02 | 0.045 | 0.2 | 0. | 0.003 | 0.055 | 0. | 0. | 0.06 | 0.15 |
| 00655 PHOSPHATE, POLY (MG/L AS PO4) | 01/18/69-08/18/69 | 26 | 0.05 | 0.086 | 0.36 | 0. | 0.011 | 0.105 | 0. | 0. | 0.14 | 0.283 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 02/22/68-08/18/69 | 46 | 0.025 | 0.038 | 0.17 | 0. | 0.002 | 0.042 | 0. | 0. | 0.06 | 0.093 |
| 00680 CARBON, TOTAL ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 32 | 10.65 | 13.694 | 37.3 | 5.3 | 59.065 | 7.685 | 6.06 | 8.425 | 17.4 | 27.11 |
| 00681 CARBON, DISSOLVED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 32 | 8.1 | 8.788 | 23. | 0. | 16.991 | 4.122 | 5.3 | 6.125 | 10.25 | 14.14 |
| 00689 CARBON, SUSPENDED ORGANIC (MG/L AS C) | 08/19/68-08/18/69 | 31 | 2. | 4.477 | 30.8 | 0. | 57.188 | 7.562 | 0. | 0. | 4.4 | 20.32 |
| 00916 CALCIUM, TOTAL (MG/L AS CA) | 02/22/68-08/18/69 | 46 | 75.3 | 75.285 | 99.8 | 40.1 | 92.64 | 9.625 | 62.64 | 71.85 | 80.55 | 86.96 |
| 00927 MAGNESIUM, TOTAL (MG/L AS MG) | 02/22/68-08/18/69 | 46 | 24.3 | 23.748 | 41.1 | 11.1 | 25.231 | 5.023 | 17.43 | 22.575 | 26.3 | 28.35 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0177

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|--------|-------|--------|--------|
| 00929 | SODIUM, TOTAL (MG/L AS NA) | 02/22/68-08/18/69 | 46 | 80.23 | 78.321 | 103.45 | 45.75 | 142.082 | 11.92 | 62.415 | 70.8 | 85.348 | 94.641 |
| 00937 | POTASSIUM, TOTAL MG/L AS K) | 02/22/68-08/18/69 | 46 | 4.69 | 5.217 | 16.42 | 2.35 | 6.305 | 2.511 | 3.52 | 4.3 | 5.178 | 6.37 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 02/22/68-08/18/69 | 46 | 12. | 11.348 | 16. | 7. | 3.654 | 1.912 | 8.7 | 10. | 13. | 13. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 02/22/68-08/18/69 | 45 | 270. | 276.156 | 356. | 208. | 987.543 | 31.425 | 245.8 | 254.5 | 295. | 316. |
| 00951 | FLUORIDE, TOTAL (MG/L AS F) | 02/22/68-08/18/69 | 45 | 0.76 | 0.709 | 1.9 | 0.38 | 0.079 | 0.282 | 0.38 | 0.57 | 0.76 | 1.026 |
| 00956 | SILICA, TOTAL (MG/L AS SiO2) | 03/07/68-08/18/69 | 44 | 10.6 | 10.28 | 14. | 6. | 2.683 | 1.638 | 7.95 | 9.25 | 11.275 | 12.25 |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 02/22/68-08/18/69 | 43 | 1. | 1.251 | 6. | 0. | 1.326 | 1.152 | 0.64 | 0.8 | 1. | 2. |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | 02/22/68-08/18/69 | 45 | 5. | 19.6 | 300. | 0. | 2310.291 | 48.065 | 0. | 1. | 12. | 54.4 |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 04/11/68-08/18/69 | 41 | 20. | 25.22 | 110. | 0. | 466.526 | 21.599 | 4.4 | 8. | 31.5 | 56.8 |
| 74010 | IRON, TOTAL (MG/L AS FE) | 02/22/68-08/18/69 | 45 | 0.009 | 0.035 | 0.46 | 0. | 0.006 | 0.081 | 0.001 | 0.004 | 0.03 | 0.084 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0177

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|---------------------------------|----------------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. 50. | 44 | 0 | 0.00 | 23 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| 00403 | PH, LAB | Fresh Chronic 9. | 45 | 0 | 0.00 | 22 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| | | Other-Lo Lim. 6.5 | 45 | 0 | 0.00 | 22 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 00406 | PH, FIELD | Fresh Chronic 9. | 33 | 0 | 0.00 | 18 | 0 | 0.00 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | | | |
| | | Other-Lo Lim. 6.5 | 33 | 0 | 0.00 | 18 | 0 | 0.00 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water 1. | 41 | 0 | 0.00 | 22 | 0 | 0.00 | 11 | 0 | 0.00 | 8 | 0 | 0.00 | | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water 10. | 42 | 0 | 0.00 | 23 | 0 | 0.00 | 11 | 0 | 0.00 | 8 | 0 | 0.00 | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute 860. | 46 | 0 | 0.00 | 23 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| | | Drinking Water 250. | 46 | 0 | 0.00 | 23 | 0 | 0.00 | 13 | 0 | 0.00 | 10 | 0 | 0.00 | | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water 250. | 45 | 38 | 0.84 | 23 | 20 | 0.87 | 13 | 11 | 0.85 | 9 | 7 | 0.78 | | | |
| 00951 | FLUORIDE, TOTAL AS F | Drinking Water 4. | 45 | 0 | 0.00 | 23 | 0 | 0.00 | 13 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| 01042 | COPPER, TOTAL | Fresh Acute 18. | 43 | 0 | 0.00 | 22 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| | | Drinking Water 1300. | 43 | 0 | 0.00 | 22 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| 01092 | ZINC, TOTAL | Fresh Acute 120. | 41 | 0 | 0.00 | 20 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| | | Drinking Water 5000. | 41 | 0 | 0.00 | 20 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0178

NPS Station ID: BICA0178
 Location: BIGHORN RIVER BELOW AFTER BAY
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015003405.64
 Description:
 CROW 208 PROG

LAT/LON: 45.311670/-107.958615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 6.36

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2266BI02
 Within Park Boundary: Yes

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.00

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0178

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 31501 COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 10/24/76-10/24/76 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 31501 LOG COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,3 | 10/24/76-10/24/76 | 1 | 0.477 | 0.477 | 0.477 | 0.477 | 0. | 0. | ** | ** | ** | ** |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506) | 10/24/76-10/24/76 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150 | 10/24/76-10/24/76 | 1 | 1.69 | 1.69 | 1.69 | 1.69 | 0. | 0. | ** | ** | ** | ** |
| 31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506 | 10/24/76-10/24/76 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 10/24/76-10/24/76 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 10/24/76-10/24/76 | 1 | 0.301 | 0.301 | 0.301 | 0.301 | 0. | 0. | ** | ** | ** | ** |
| 31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C | 10/24/76-10/24/76 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0178

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. | Other-Hi Lim. | 1000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C | Other-Hi Lim. | 1000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH | Other-Hi Lim. | 200. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0179

NPS Station ID: BICA0179
 Location: M38082
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.314392/-108.105616

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_061 /1037450
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0179

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 375. | 375. | 375. | 375. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 86.8 | 86.8 | 86.8 | 86.8 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 5.9 | 5.9 | 5.9 | 5.9 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 139. | 139. | 139. | 139. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 64. | 64. | 64. | 64. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 105. | 105. | 105. | 105. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 863. | 863. | 863. | 863. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 189. | 189. | 189. | 189. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.82 | 0.82 | 0.82 | 0.82 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0179

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Fresh Acute | | | | | | | | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | | | | | | | | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0180

NPS Station ID: BICA0180
 Location: BIGHORN RIVER NEAR ST. XAVIER, MT.
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes: 1021500 009490 36810 4430
 RMI-Miles: 1149.40 1582.00 279.40 080.90
 HUC: 10080015
 Major Basin:
 Minor Basin:
 RF1 Index: 10080015
 RF3 Index: 10080015000700.74
 Description:

LAT/LON: 45.316670/-107.918060

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.74

Agency: 112WRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 06287000
 Within Park Boundary: Yes

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.05

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|--------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 258 | 7. | 8.348 | 21.5 | 1. | 25.225 | 5.022 | 3. | 4.5 | 12.5 | 16.55 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 120 | 14. | 13.029 | 33.5 | -10. | 88.316 | 9.398 | 4.05 | -1.25 | 20.875 | 24.9 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 175 | 3790. | 4185.451 | 20240. | 358. | 5791001.088 | 2406.45 | 2201. | 2900. | 4810. | 6450. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 214 | 2920. | 3318.421 | 12100. | 332. | 3280069.315 | 1811.096 | 1620. | 2132.5 | 3957.5 | 5530. |
| 00065 | STAGE, STREAM (FEET) | 10/10/90-09/03/96 | 52 | 60.58 | 60.884 | 64.61 | 59.38 | 1.386 | 1.177 | 59.634 | 60.183 | 61.305 | 62.504 |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 07/23/69-06/02/70 | 7 | 2. | 2.8 | 6. | 1.2 | 2.92 | 1.709 | ** | ** | ** | ** |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 10/01/66-12/01/70 | 66 | 5. | 5.758 | 17. | 0. | 12.617 | 3.552 | 1.7 | 3. | 8. | 11. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 341 | 854. | 847.865 | 1180. | 255. | 22658.27 | 150.527 | 617. | 780.5 | 950. | 1030. |
| 00300 | OXYGEN, DISSOLVED MG/L | 07/23/69-04/20/70 | 6 | 11.3 | 11.467 | 12.8 | 10. | 1.307 | 1.143 | ** | ** | ** | ** |
| 00310 | BOD, 5 DAY, 20 DEG C MG/L | 07/23/69-06/02/70 | 7 | 1. | 1.243 | 2.7 | 0.7 | 0.49 | 0.7 | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 162 | 8. | 7.916 | 8.5 | 6.6 | 0.082 | 0.286 | 7.5 | 7.8 | 8.1 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 162 | 8. | 7.789 | 8.5 | 6.6 | 0.098 | 0.313 | 7.5 | 7.8 | 8.1 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 162 | 0.01 | 0.016 | 0.251 | 0.003 | 0. | 0.022 | 0.006 | 0.008 | 0.016 | 0.032 |
| 00403 | PH, LAB, STANDARD UNITS SU | 10/28/80-08/25/81 | 12 | 8.15 | 8.242 | 9. | 8. | 0.068 | 0.261 | 8.03 | 8.1 | 8.3 | 8.79 |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 10/28/80-08/25/81 | 12 | 8.147 | 8.192 | 9. | 8. | 0.071 | 0.266 | 8.03 | 8.1 | 8.3 | 8.79 |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/28/80-08/25/81 | 12 | 0.007 | 0.006 | 0.01 | 0.001 | 0. | 0.002 | 0.002 | 0.005 | 0.008 | 0.009 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 09/01/72-09/20/78 | 41 | 3.1 | 4.19 | 16. | 1.3 | 9.631 | 3.103 | 2.12 | 2.5 | 4.85 | 6.62 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 208 | 162. | 162.692 | 216. | 107. | 463.663 | 21.533 | 131.8 | 151. | 178.75 | 190. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 181 | 200. | 197.851 | 263. | 130. | 725.95 | 26.943 | 157.6 | 183. | 218. | 230. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 128 | 0. | 0.094 | 6. | 0. | 0.385 | 0.62 | 0. | 0. | 0. | 0. |
| 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 09/11/69-09/11/69 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 07/23/69-06/02/70 | 7 | 0.01 | 0.011 | 0.04 | 0. | 0. | 0.015 | ** | ** | ** | ** |
| 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | 07/23/69-06/02/70 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 05/01/69-12/01/70 | 35 | 0.17 | 0.183 | 0.5 | 0. | 0.024 | 0.155 | 0.006 | 0.04 | 0.3 | 0.4 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 149 | 0.4 | 0.403 | 2.2 | 0. | 0.069 | 0.263 | 0.2 | 0.3 | 0.5 | 0.6 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 114 | 0.03 | 0.031 | 0.15 | 0. | 0.001 | 0.036 | 0. | 0. | 0.03 | 0.09 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 07/23/69-06/02/70 | 7 | 0.06 | 0.047 | 0.08 | 0. | 0.001 | 0.031 | ** | ** | ** | ** |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 138 | 0.02 | 0.027 | 0.47 | 0. | 0.002 | 0.042 | 0.005 | 0.01 | 0.03 | 0.05 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 92 | 0.01 | 0.012 | 0.05 | 0. | 0. | 0.012 | 0.005 | 0.005 | 0.01 | 0.03 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 223 | 290. | 287.399 | 410. | 160. | 2629.295 | 51.277 | 220. | 260. | 320. | 356.8 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 207 | 120. | 122.357 | 220. | 45. | 1146.163 | 33.855 | 79.4 | 100. | 140. | 175.6 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 216 | 73.5 | 73.444 | 110. | 43. | 151.067 | 12.291 | 56.7 | 66. | 80.75 | 90. |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 216 | 25. | 24.958 | 38. | 13. | 27.194 | 5.215 | 17. | 22. | 28. | 32. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 216 | 78. | 77.532 | 118. | 40. | 219.571 | 14.818 | 56.7 | 70. | 87.75 | 96. |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 216 | 2. | 1.996 | 2.6 | 1.4 | 0.058 | 0.242 | 1.7 | 1.8 | 2.1 | 2.3 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 216 | 37. | 36.611 | 42. | 30. | 3.885 | 1.971 | 34. | 35. | 38. | 39. |
| 00933 | SODIUM,PLUS POTASSIUM (MG/L) | 05/08/79-02/18/80 | 9 | 85. | 84.667 | 95. | 69. | 75. | 8.66 | 69. | 79. | 94. | 95. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 218 | 3.8 | 3.829 | 22. | 1.3 | 1.908 | 1.381 | 2.9 | 3.5 | 4.2 | 4.5 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------------------|-------------------|--------|--------|----------|---------|---------|--------------|-----------|-------|----------|--------|----------|
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 217 | 11. | 10.834 | 24. | 3. | 8.435 | 2.904 | 7. | 9. | 13. | 15. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 224 | 270. | 271.353 | 400. | 140. | 2973.359 | 54.529 | 190. | 240. | 309.25 | 340. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 217 | 0.4 | 0.428 | 0.8 | 0.1 | 0.012 | 0.108 | 0.3 | 0.4 | 0.5 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-08/25/81 | 216 | 10. | 10.218 | 16. | 0.2 | 1.982 | 1.408 | 8.77 | 9.425 | 11. | 12. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-06/06/74 | 79 | 120. | 121.266 | 300. | 60. | 1362.249 | 36.909 | 80. | 100. | 140. | 168. |
| 01045 | IRON, TOTAL (UG/L AS FE) | 01/03/68-01/03/68 | 1 | 179. | 179. | 179. | 179. | 0. | 0. | ** | ** | ** | ** |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 126 | 10. | 24.325 | 210. | 0. | 1272.429 | 35.671 | 5. | 5. | 30. | 60. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 117 ## | 5. | 10.795 | 160. | 0. | 453.595 | 21.298 | 0. | 5. | 5. | 30. |
| 31501 | COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C | 07/23/69-04/20/70 | 6 | 124.5 | 152. | 370. | 2. | 23840.4 | 154.403 | ** | ** | ** | ** |
| 31501 | LOG COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED, | 07/23/69-04/20/70 | 6 | 1.996 | 1.725 | 2.568 | 0.301 | 0.812 | 0.901 | ** | ** | ** | ** |
| 31501 | GM COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,3 | GEOMETRIC MEAN = | | | 53.068 | | | | | | | | |
| 38260 | METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.) | 07/23/69-06/02/70 | 7 | 0.01 | 0.024 | 0.1 | 0. | 0.001 | 0.036 | ** | ** | ** | ** |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39340 | GAMMA-BHC(LINDANE),WHOLE WATER,UG/L | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0.04 | 0.04 | 0.08 | 0. | 0.003 | 0.057 | ** | ** | ** | ** |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 39740 | 2,4,5-T IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 39760 | SILVEX IN WHOLE WATER SAMPLE (UG/L) | 07/23/69-10/30/69 | 2 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 70300 | RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L | 10/01/66-12/01/70 | 71 | 642. | 636.423 | 842. | 363. | 11611.39 | 107.756 | 493.2 | 571. | 699. | 789.6 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 195 | 570. | 565.595 | 792. | 322. | 8020.964 | 89.56 | 435. | 517. | 625. | 674. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 220 | 5535. | 5935.033 | 33120.1 | 511. | 12628193.115 | 3553.617 | 2641. | 3802.508 | 7135. | 8609.999 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 220 | 0.79 | 0.792 | 1.15 | 0.44 | 0.021 | 0.144 | 0.572 | 0.71 | 0.88 | 0.95 |
| 70507 | PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 02/04/71-03/02/72 | 20 | 0.01 | 0.007 | 0.02 | 0. | 0. | 0.006 | 0. | 0. | 0.01 | 0.019 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 10/01/66-12/01/70 | 72 | 0.8 | 0.918 | 2.9 | 0. | 0.524 | 0.724 | 0.1 | 0.2 | 1.5 | 1.87 |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 07/23/69-06/02/70 | 6 | 0.02 | 0.022 | 0.04 | 0.01 | 0. | 0.01 | ** | ** | ** | ** |
| 71885 | IRON (UG/L AS FE) | 04/21/67-09/14/67 | 2 | 5. | 5. | 10. | 0. | 50. | 7.071 | ** | ** | ** | ** |
| 82068 | POTASSIUM 40, DISSOLVED, K-40 PC/LITER | 10/28/80-06/15/81 | 10 | 2.8 | 2.8 | 3.1 | 2.5 | 0.029 | 0.17 | 2.51 | 2.675 | 2.9 | 3.08 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0180

| Parameter | | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|-----|------|---------------------|----|------|---------------------|----|------|---------------|--|--|
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 7 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 6 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00400 | PH | Fresh Chronic | 9. | 162 | 0 | 0.00 | 110 | 0 | 0.00 | 29 | 0 | 0.00 | 23 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 162 | 0 | 0.00 | 110 | 0 | 0.00 | 29 | 0 | 0.00 | 23 | 0 | 0.00 | | | |
| 00403 | PH, LAB | Fresh Chronic | 9. | 12 | 1 | 0.08 | 8 | 1 | 0.13 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | | Other-Lo Lim. | 6.5 | 12 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00613 | NITRITE NITROGEN, DISSOLVED AS N | Drinking Water | 1. | 7 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00618 | NITRATE NITROGEN, DISSOLVED AS N | Drinking Water | 10. | 35 | 0 | 0.00 | 21 | 0 | 0.00 | 8 | 0 | 0.00 | 6 | 0 | 0.00 | | | |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. | Drinking Water | 10. | 149 | 0 | 0.00 | 99 | 0 | 0.00 | 28 | 0 | 0.00 | 22 | 0 | 0.00 | | | |
| 00940 | CHLORIDE,TOTAL IN WATER | Fresh Acute | 860. | 217 | 0 | 0.00 | 146 | 0 | 0.00 | 39 | 0 | 0.00 | 32 | 0 | 0.00 | | | |
| | | Drinking Water | 250. | 217 | 0 | 0.00 | 146 | 0 | 0.00 | 39 | 0 | 0.00 | 32 | 0 | 0.00 | | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 224 | 159 | 0.71 | 150 | 104 | 0.69 | 41 | 39 | 0.95 | 33 | 16 | 0.48 | | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 217 | 0 | 0.00 | 146 | 0 | 0.00 | 39 | 0 | 0.00 | 32 | 0 | 0.00 | | | |
| 31501 | COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. | Other-Hi Lim. | 1000. | 6 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 3. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39340 | GAMMA-BHC(LINDANE), WHOLE WATER | Fresh Acute | 2. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| | | Drinking Water | 0.2 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39360 | DDD IN WHOLE WATER SAMPLE | Fresh Acute | 0.6 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39365 | DDE IN WHOLE WATER SAMPLE | Fresh Acute | 1050. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39370 | DDT IN WHOLE WATER SAMPLE | Fresh Acute | 1.1 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

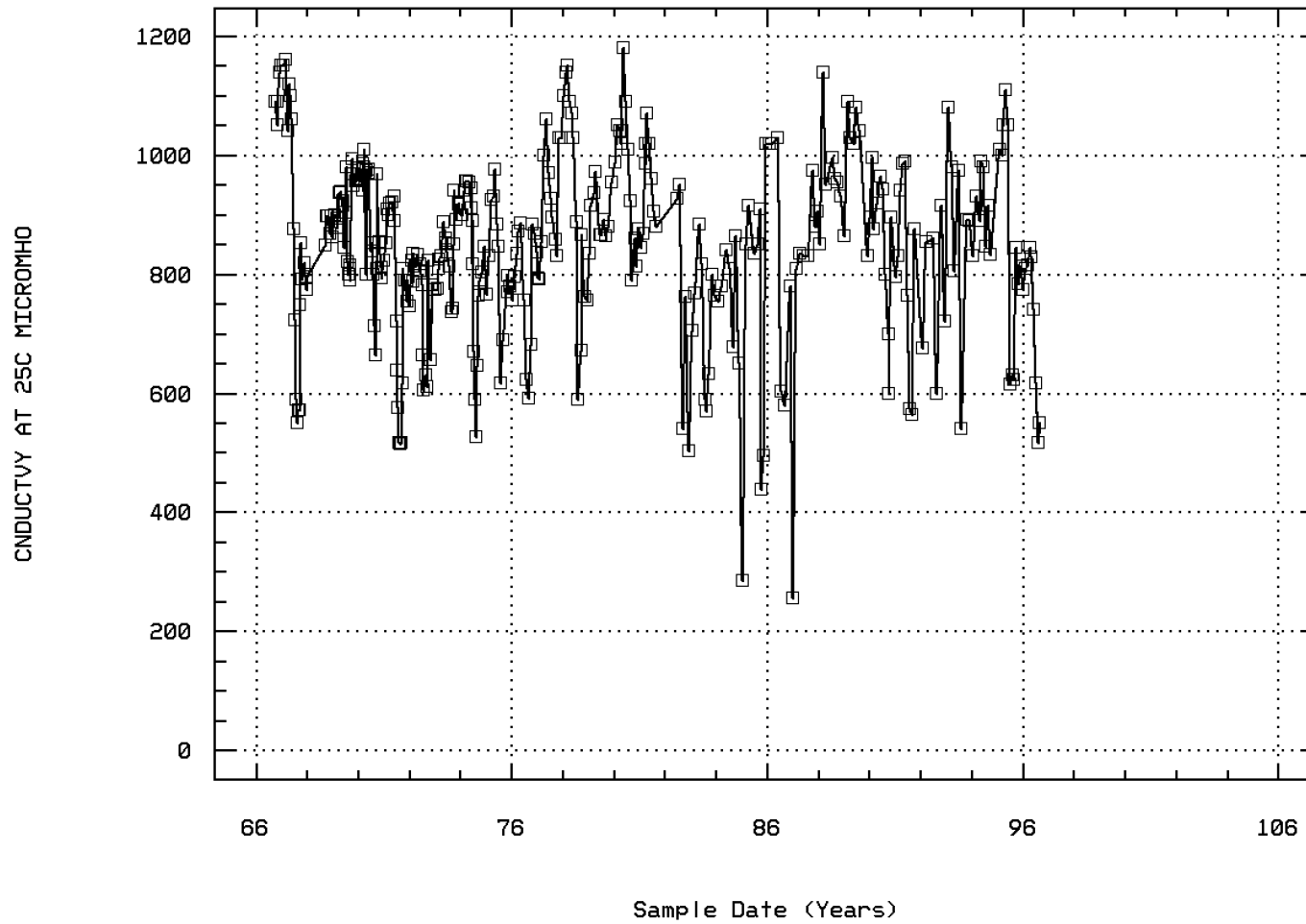
EPA Water Quality Criteria Analysis for Station: BICA0180

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 39380 DIELDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 2.5 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39390 ENDRLN IN WHOLE WATER SAMPLE | Fresh Acute | 0.18 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39410 HEPTACHLOR IN WHOLE WATER SAMPLE | Fresh Acute | 0.52 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE | Fresh Acute | 0.52 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39730 2,4-D IN WHOLE WATER SAMPLE | Drinking Water | 70. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 39760 SILVEX IN WHOLE WATER SAMPLE | Drinking Water | 50. | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | 1 | 0 | 0.00 | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 72 | 0 | 0.00 | 51 | 0 | 0.00 | 12 | 0 | 0.00 | 9 | 0 | 0.00 | | | |
| 71856 NITRITE NITROGEN, DISSOLVED (AS NO2) | Drinking Water | 3.3 | 6 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BICA0180 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN RIVER NEAR ST. XAVIER, MT.

Annual Analysis for 1966 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|---------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 4 | 1745.5 | 1822.25 | 2435. | 1363. | 199752.917 | 446.937 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 4 | 1090. | 1092.5 | 1140. | 1050. | 1358.333 | 36.856 | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 4 | 7.5 | 7.55 | 7.8 | 7.4 | 0.03 | 0.173 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 4 | 7.5 | 7.527 | 7.8 | 7.4 | 0.031 | 0.175 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 4 | 0.032 | 0.03 | 0.04 | 0.016 | 0. | 0.01 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 4 | 185.5 | 187. | 194. | 183. | 24.667 | 4.967 | ** | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 4 | 226. | 227.75 | 236. | 223. | 34.917 | 5.909 | ** | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 4 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 4 | 362. | 362.75 | 376. | 351. | 104.917 | 10.243 | ** | ** | ** | ** |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 4 | 176.5 | 175.75 | 182. | 168. | 34.917 | 5.909 | ** | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 4 | 92. | 92.25 | 94. | 91. | 1.583 | 1.258 | ** | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 4 | 31.5 | 32.5 | 36. | 31. | 5.667 | 2.38 | ** | ** | ** | ** |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 4 | 108. | 107.5 | 114. | 100. | 33.667 | 5.802 | ** | ** | ** | ** |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 4 | 2.45 | 2.45 | 2.6 | 2.3 | 0.017 | 0.129 | ** | ** | ** | ** |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 4 | 39. | 38.75 | 39. | 38. | 0.25 | 0.5 | ** | ** | ** | ** |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 4 | 3.9 | 3.9 | 4. | 3.8 | 0.013 | 0.115 | ** | ** | ** | ** |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 4 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 4 | 366. | 366.5 | 381. | 353. | 141.667 | 11.902 | ** | ** | ** | ** |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 4 | 0.4 | 0.45 | 0.6 | 0.4 | 0.01 | 0.1 | ** | ** | ** | ** |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 4 | 11. | 11.25 | 12. | 11. | 0.25 | 0.5 | ** | ** | ** | ** |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 4 | 3645.01 | 3895.008 | 5390. | 2900.01 | 1130690.033 | 1063.339 | ** | ** | ** | ** |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 4 | 1.075 | 1.073 | 1.12 | 1.02 | 0.002 | 0.041 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1967 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|---------|-------|-------|---------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 1 | 17.8 | 17.8 | 17.8 | 17.8 | 0. | 0. | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 19 | 3252. | 5146.579 | 20240. | 1903. | 28471856.813 | 5335.903 | 2215. | 2490. | 5123. | 19490. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 17 | 852. | 874.706 | 1160. | 549. | 51669.596 | 227.309 | 566.6 | 656. | 1110. | 1152. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 17 | 7.7 | 7.653 | 8. | 7.3 | 0.06 | 0.245 | 7.3 | 7.45 | 7.85 | 8. |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 17 | 7.7 | 7.589 | 8. | 7.3 | 0.064 | 0.254 | 7.3 | 7.45 | 7.85 | 8. |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 17 | 0.02 | 0.026 | 0.05 | 0.01 | 0. | 0.014 | 0.01 | 0.014 | 0.036 | 0.05 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 17 | 148. | 156.059 | 202. | 107. | 1209.809 | 34.782 | 107. | 128.5 | 197.5 | 202. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 17 | 181. | 190.118 | 246. | 130. | 1796.61 | 42.386 | 130. | 156.5 | 240.5 | 246. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 17 | 265. | 282.412 | 394. | 168. | 7057.257 | 84.007 | 176. | 198. | 380. | 390. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 17 | 114. | 126.353 | 192. | 49. | 2633.243 | 51.315 | 58.6 | 81.5 | 180. | 191.2 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 17 | 70. | 72.471 | 99. | 46. | 372.765 | 19.307 | 47.6 | 54. | 94. | 98.2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 17 | 22. | 24.706 | 37. | 13. | 78.596 | 8.865 | 13.8 | 15.5 | 34. | 36.2 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 17 | 84. | 85.176 | 118. | 50. | 570.654 | 23.888 | 53.2 | 63. | 107. | 114.8 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 17 | 2.2 | 2.188 | 2.6 | 1.7 | 0.1 | 0.316 | 1.7 | 1.9 | 2.5 | 2.6 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 17 | 39. | 39.235 | 41. | 37. | 1.316 | 1.147 | 37.8 | 38.5 | 40. | 41. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 17 | 4. | 3.918 | 5.1 | 2.8 | 0.398 | 0.631 | 2.96 | 3.4 | 4.4 | 4.86 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 17 | 9. | 10.529 | 15. | 5. | 13.64 | 3.693 | 5. | 7.5 | 14. | 15. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 17 | 271. | 280.529 | 394. | 153. | 8093.64 | 89.965 | 153.8 | 197. | 370. | 393.2 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 17 | 0.4 | 0.412 | 0.7 | 0.2 | 0.021 | 0.145 | 0.2 | 0.3 | 0.5 | 0.62 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 17 | 11. | 10.747 | 12. | 8.5 | 0.76 | 0.872 | 9.22 | 10.5 | 11. | 12. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 3 | 533. | 537. | 561. | 517. | 496. | 22.271 | ** | ** | ** | ** |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 17 | 5050. | 8114.725 | 33120.1 | 2580.01 | 69844709.153 | 8357.315 | 2884.01 | 4325. | 7125. | 27336.1 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 17 | 0.81 | 0.836 | 1.15 | 0.49 | 0.058 | 0.241 | 0.514 | 0.6 | 1.085 | 1.134 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1968 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 17 | 4050. | 4961.294 | 10700. | 3080. | 5434799.471 | 2331.266 | 3284. | 3690. | 5424.5 | 10692. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 7 | 868. | 854.286 | 898. | 773. | 2658.905 | 51.565 | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 7 | 7.8 | 7.829 | 8.1 | 7.6 | 0.036 | 0.189 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 7 | 7.8 | 7.794 | 8.1 | 7.6 | 0.037 | 0.193 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 7 | 0.016 | 0.016 | 0.025 | 0.008 | 0. | 0.007 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 7 | 165. | 161.857 | 180. | 150. | 113.476 | 10.653 | ** | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 7 | 201. | 197.571 | 220. | 183. | 174.286 | 13.202 | ** | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 7 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 7 | 276. | 274.571 | 299. | 251. | 394.952 | 19.873 | ** | ** | ** | ** |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 7 | 109. | 112.571 | 132. | 99. | 129.952 | 11.4 | ** | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 7 | 69. | 71.143 | 80. | 65. | 32.476 | 5.699 | ** | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 7 | 24. | 23.857 | 26. | 22. | 2.476 | 1.574 | ** | ** | ** | ** |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 7 | 80. | 78.857 | 85. | 71. | 32.81 | 5.728 | ** | ** | ** | ** |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 7 | 2.1 | 2.071 | 2.2 | 1.9 | 0.009 | 0.095 | ** | ** | ** | ** |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 7 | 37. | 37.714 | 39. | 37. | 0.905 | 0.951 | ** | ** | ** | ** |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 7 | 3.7 | 3.757 | 4.2 | 3.3 | 0.083 | 0.288 | ** | ** | ** | ** |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 7 | 10. | 10. | 12. | 8. | 1.667 | 1.291 | ** | ** | ** | ** |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 7 | 276. | 272.143 | 302. | 237. | 593.476 | 24.361 | ** | ** | ** | ** |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 7 | 0.4 | 0.4 | 0.6 | 0.3 | 0.013 | 0.115 | ** | ** | ** | ** |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 7 | 11. | 11.143 | 12. | 10. | 0.476 | 0.69 | ** | ** | ** | ** |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 1 | 210. | 210. | 210. | 210. | 0. | 0. | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 6 | 589. | 577.833 | 613. | 510. | 1472.167 | 38.369 | ** | ** | ** | ** |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 7 | 6620. | 6919.857 | 8179. | 6180. | 544746.81 | 738.07 | ** | ** | ** | ** |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 7 | 0.84 | 0.816 | 0.88 | 0.73 | 0.004 | 0.061 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|---------|----------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 9 | 8.5 | 9. | 15. | 3. | 12.313 | 3.509 | 3. | 7. | 11.5 | 15. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 3 | 28. | 19. | 31. | -2. | 333. | 18.248 | ** | ** | ** | ** |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 22 | 3245. | 3232.682 | 5000. | 1670. | 988989.656 | 994.48 | 1688. | 2465. | 3795. | 4922. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 22 | 909.5 | 900.727 | 994. | 790. | 4157.732 | 64.48 | 802.7 | 839. | 957.25 | 979.4 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 19 | 7.9 | 7.911 | 8.5 | 7.4 | 0.07 | 0.264 | 7.5 | 7.8 | 8.1 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 19 | 7.9 | 7.835 | 8.5 | 7.4 | 0.076 | 0.276 | 7.5 | 7.8 | 8.1 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 19 | 0.013 | 0.015 | 0.04 | 0.003 | 0. | 0.009 | 0.006 | 0.008 | 0.016 | 0.032 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 19 | 174. | 171.474 | 191. | 146. | 159.263 | 12.62 | 151. | 162. | 178. | 187. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 17 | 212. | 209. | 228. | 178. | 205.75 | 14.344 | 182.8 | 199.5 | 217.5 | 228. |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 17 | 0. | 0.176 | 3. | 0. | 0.529 | 0.728 | 0. | 0. | 0. | 0.6 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 4 | 0.005 | 0.015 | 0.05 | 0. | 0.001 | 0.024 | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 21 | 306. | 301.857 | 360. | 258. | 598.129 | 24.457 | 262.6 | 283.5 | 316. | 329.6 |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 17 | 128. | 127.118 | 142. | 111. | 99.985 | 9.999 | 114.2 | 117.5 | 136. | 142. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 17 | 78. | 77.059 | 82. | 69. | 15.809 | 3.976 | 69.8 | 74. | 80. | 81.2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 17 | 26. | 26.059 | 29. | 22. | 5.184 | 2.277 | 22. | 25. | 28. | 28.2 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 17 | 81. | 85.647 | 101. | 77. | 66.618 | 8.162 | 78.6 | 79.5 | 91.5 | 100.2 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 17 | 2.1 | 2.171 | 2.5 | 1.9 | 0.033 | 0.183 | 1.98 | 2.05 | 2.25 | 2.5 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 17 | 37. | 37.294 | 41. | 35. | 3.846 | 1.961 | 35. | 36. | 38.5 | 41. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 18 | 4.1 | 4.883 | 22. | 1.7 | 18.666 | 4.32 | 3.23 | 3.7 | 4.275 | 6.34 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 17 | 11. | 11.059 | 13. | 8. | 2.434 | 1.56 | 8.8 | 10. | 12.5 | 13. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 21 | 290. | 292.81 | 327. | 261. | 443.962 | 21.07 | 262.8 | 277. | 315. | 325. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 17 | 0.4 | 0.453 | 0.6 | 0.4 | 0.004 | 0.062 | 0.4 | 0.4 | 0.5 | 0.52 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 17 | 10. | 10.182 | 16. | 8. | 3.534 | 1.88 | 8.16 | 8.75 | 11. | 12.8 |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 4 | 48. | 69. | 180. | 0. | 6084. | 78. | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 17 | 616. | 609.353 | 670. | 546. | 1373.618 | 37.062 | 553.2 | 582. | 636.5 | 658.8 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 20 | 5965. | 5657.502 | 8610. | 2880.01 | 2857725.274 | 1690.481 | 3000.01 | 4200.008 | 6862.5 | 7870. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------|-------------------|-----|--------|------|---------|---------|----------|-----------|-------|-------|-------|-------|
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 20 | 0.875 | 0.87 | 0.95 | 0.77 | 0.003 | 0.058 | 0.771 | 0.823 | 0.918 | 0.947 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1970 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 7 | 4.5 | 4.286 | 5.5 | 3. | 0.988 | 0.994 | ** | ** | ** | ** |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 3 | 10. | 11.167 | 17.5 | 6. | 34.083 | 5.838 | ** | ** | ** | ** |
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 27 | 3160. | 3304.481 | 10500. | 521. | 3370265.336 | 1835.828 | 1588. | 2040. | 3990. | 4802. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 22 | 897.5 | 877.182 | 1010. | 663. | 11992.442 | 109.51 | 678.7 | 800. | 974.5 | 984.2 |
| 00400 PH (STANDARD UNITS) | 10/01/66-09/16/80 | 23 | 7.9 | 7.957 | 8.3 | 7.5 | 0.04 | 0.2 | 7.7 | 7.8 | 8.1 | 8.2 |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 23 | 7.9 | 7.911 | 8.3 | 7.5 | 0.042 | 0.205 | 7.7 | 7.8 | 8.1 | 8.2 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 23 | 0.013 | 0.012 | 0.032 | 0.005 | 0. | 0.006 | 0.006 | 0.008 | 0.016 | 0.02 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 23 | 174. | 172.87 | 207. | 140. | 268.755 | 16.394 | 150. | 158. | 185. | 194.6 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 20 | 213.5 | 210.25 | 252. | 170. | 455.25 | 21.337 | 180.6 | 192. | 225. | 240.2 |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 20 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00666 PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 9 | 0.02 | 0.026 | 0.05 | 0. | 0. | 0.018 | 0. | 0.01 | 0.045 | 0.05 |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 23 | 310. | 304.652 | 374. | 232. | 1661.055 | 40.756 | 235.2 | 279. | 340. | 348. |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 20 | 128. | 126.25 | 167. | 77. | 646.197 | 25.42 | 84.6 | 107.75 | 146. | 156.6 |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 20 | 76.5 | 76.9 | 95. | 61. | 93.884 | 9.689 | 62.3 | 68.25 | 85. | 88. |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 20 | 26.5 | 26.05 | 33. | 16. | 20.576 | 4.536 | 20. | 23. | 29.75 | 31.9 |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 20 | 84.5 | 81.85 | 100. | 56. | 162.976 | 12.766 | 59.8 | 71.5 | 91. | 99.4 |
| 00931 SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 20 | 2.1 | 2.07 | 2.4 | 1.6 | 0.052 | 0.227 | 1.71 | 1.925 | 2.2 | 2.4 |
| 00932 SODIUM, PERCENT | 10/01/66-08/25/81 | 20 | 37. | 36.75 | 42. | 33. | 5.25 | 2.291 | 34. | 35. | 38.75 | 39. |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 20 | 4.2 | 4.21 | 5.2 | 2.8 | 0.446 | 0.668 | 3.41 | 3.65 | 4.9 | 5.1 |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 20 | 11. | 10.65 | 14. | 6. | 3.818 | 1.954 | 7.1 | 10. | 12. | 12.9 |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 23 | 307. | 287.87 | 332. | 197. | 1700.937 | 41.242 | 206.4 | 264. | 320. | 326.8 |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 20 | 0.5 | 0.44 | 0.6 | 0.2 | 0.01 | 0.099 | 0.3 | 0.4 | 0.5 | 0.5 |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 20 | 10. | 9.72 | 12. | 6. | 3.282 | 1.812 | 6.4 | 8.65 | 11. | 12. |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 4 | 69.5 | 65.25 | 116. | 6. | 3080.917 | 55.506 | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 20 | 610.5 | 597.75 | 692. | 444. | 6197.355 | 78.723 | 448.5 | 553.25 | 663.75 | 685.3 |
| 70302 SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 23 | 5380. | 5711.304 | 16700. | 1030. | 11139811.858 | 3337.636 | 2154. | 3030. | 7260. | 9240. |
| 70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 23 | 0.92 | 0.863 | 1. | 0.63 | 0.013 | 0.112 | 0.656 | 0.79 | 0.95 | 0.984 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 11 | 9. | 9.136 | 17.5 | 1.5 | 35.405 | 5.95 | 1.8 | 3. | 14.5 | 17.4 |
| 00060 FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 27 | 4920. | 4936.296 | 8190. | 2570. | 2826808.832 | 1681.312 | 2590. | 3540. | 6450. | 7816. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 20 | 799.5 | 759.9 | 930. | 515. | 21431.674 | 146.396 | 517. | 621.75 | 896.75 | 921.7 |
| 00400 PH (STANDARD UNITS) | 10/01/66-09/16/80 | 20 | 8.1 | 8.025 | 8.4 | 7.3 | 0.067 | 0.259 | 7.71 | 7.825 | 8.2 | 8.3 |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 20 | 8.1 | 7.935 | 8.4 | 7.3 | 0.076 | 0.275 | 7.71 | 7.825 | 8.2 | 8.3 |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 20 | 0.008 | 0.012 | 0.05 | 0.004 | 0. | 0.01 | 0.005 | 0.006 | 0.015 | 0.02 |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 20 | 150. | 153.55 | 216. | 112. | 800.05 | 28.285 | 112.8 | 127.75 | 176. | 190.8 |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 20 | 183. | 186.95 | 263. | 136. | 1174.366 | 34.269 | 137.9 | 155.25 | 214.75 | 229. |
| 00445 CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 19 | 0. | 0.105 | 2. | 0. | 0.211 | 0.459 | 0. | 0. | 0. | 0. |
| 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 20 | 0.2 | 0.215 | 0.4 | 0. | 0.016 | 0.126 | 0.035 | 0.1 | 0.3 | 0.4 |
| 00660 PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 20 | 0.03 | 0.024 | 0.06 | 0. | 0. | 0.02 | 0. | 0. | 0.03 | 0.059 |
| 00666 PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 11 | 0.05 | 0.046 | 0.1 | 0. | 0.001 | 0.028 | 0.004 | 0.02 | 0.06 | 0.096 |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 20 | 255. | 247. | 320. | 160. | 2853.684 | 53.42 | 161. | 200. | 297.5 | 310. |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 20 | 99. | 90.85 | 130. | 45. | 730.134 | 27.021 | 52.1 | 66. | 107.5 | 130. |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 20 | 64.5 | 63.15 | 82. | 43. | 165.292 | 12.857 | 44.1 | 51.5 | 75.75 | 79.7 |

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Annual Analysis for 1971 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|-----|---------|----------|---------|---------|--------------|-----------|-------|-------|--------|--------|
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 20 | 21.5 | 21.3 | 28. | 13. | 27.063 | 5.202 | 13.1 | 16.25 | 26.75 | 27.9 |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-08/25/81 | 20 | 73. | 67.35 | 89. | 40. | 235.503 | 15.346 | 42.1 | 54.25 | 79. | 87.4 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 20 | 1.9 | 1.86 | 2.3 | 1.4 | 0.073 | 0.27 | 1.41 | 1.6 | 2.075 | 2.2 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 20 | 37. | 36.95 | 41. | 32. | 5.208 | 2.282 | 34. | 35.25 | 39. | 39.9 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 20 | 3.65 | 3.385 | 4.8 | 2. | 0.488 | 0.698 | 2.41 | 2.825 | 3.875 | 4. |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 20 | 10. | 9.05 | 13. | 3. | 5.734 | 2.395 | 6. | 7.25 | 10.75 | 11.9 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 20 | 240. | 228.5 | 320. | 140. | 2876.579 | 53.634 | 140. | 182.5 | 277.5 | 280. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 20 | 0.4 | 0.49 | 0.8 | 0.1 | 0.038 | 0.194 | 0.3 | 0.4 | 0.675 | 0.8 |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 10/01/66-08/25/81 | 20 | 11. | 10.895 | 14. | 8.9 | 1.464 | 1.21 | 8.95 | 9.925 | 11.75 | 12. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 20 | 10. | 21.5 | 140. | 0. | 1381.842 | 37.173 | 0. | 0. | 10. | 89. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 20 | 0. | 20.9 | 160. | 0. | 2087.253 | 45.686 | 0. | 0. | 12.25 | 124. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 20 | 516.5 | 497.1 | 652. | 322. | 10914.516 | 104.473 | 327.7 | 405. | 587.5 | 627.8 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 20 | 6644.99 | 6668.998 | 14400. | 2290. | 10794936.322 | 3285.565 | 2368. | 4080. | 8207.5 | 12490. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 20 | 0.705 | 0.676 | 0.89 | 0.44 | 0.02 | 0.143 | 0.441 | 0.555 | 0.795 | 0.857 |

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Annual Analysis for 1972 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|----------|---------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 12 | 7.25 | 8.708 | 17. | 2. | 31.112 | 5.578 | 2.15 | 3.5 | 14.875 | 16.7 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 25 | 4050. | 4308.32 | 6700. | 358. | 1964763.893 | 1401.7 | 3136. | 3380. | 5055. | 6472. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 17 | 782. | 752.059 | 835. | 605. | 6913.809 | 83.149 | 609.8 | 660.5 | 820. | 832.6 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 17 | 7.9 | 7.771 | 8.4 | 6.6 | 0.206 | 0.454 | 6.92 | 7.6 | 8.1 | 8.24 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 17 | 7.9 | 7.467 | 8.4 | 6.6 | 0.304 | 0.551 | 6.92 | 7.6 | 8.1 | 8.24 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 17 | 0.013 | 0.034 | 0.251 | 0.004 | 0.004 | 0.06 | 0.006 | 0.008 | 0.026 | 0.13 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 17 | 155. | 150.941 | 171. | 122. | 237.434 | 15.409 | 124.4 | 140. | 162.5 | 167.8 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 17 | 189. | 183.353 | 208. | 149. | 323.743 | 17.993 | 152.2 | 171. | 195.5 | 202.4 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 17 | 0. | 0.353 | 6. | 0. | 2.118 | 1.455 | 0. | 0. | 0. | 1.2 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 17 | 0.2 | 0.238 | 0.4 | 0. | 0.013 | 0.112 | 0.032 | 0.2 | 0.3 | 0.4 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 17 | 0. | 0.009 | 0.03 | 0. | 0. | 0.014 | 0. | 0. | 0.03 | 0.03 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.02 | 0.061 | 0.47 | 0.01 | 0.017 | 0.129 | 0.01 | 0.013 | 0.038 | 0.344 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 15 | 0. | 0.004 | 0.01 | 0. | 0. | 0.004 | 0. | 0. | 0.01 | 0.01 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 17 | 270. | 250.588 | 280. | 200. | 830.882 | 28.825 | 200. | 220. | 270. | 280. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 17 | 100. | 99.176 | 120. | 73. | 234.279 | 15.306 | 73.8 | 83.5 | 110. | 120. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 17 | 69. | 65.294 | 73. | 53. | 48.721 | 6.98 | 53.8 | 57.5 | 70.5 | 72.2 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 17 | 22. | 21.176 | 25. | 16. | 7.154 | 2.675 | 16.8 | 19. | 23. | 23.4 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 17 | 70. | 66.588 | 78. | 48. | 102.757 | 10.137 | 48.8 | 58.5 | 74. | 77.2 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 17 | 1.9 | 1.824 | 2.1 | 1.5 | 0.038 | 0.195 | 1.5 | 1.7 | 1.95 | 2.1 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 17 | 36. | 36.118 | 39. | 33. | 2.485 | 1.576 | 33.8 | 35. | 37. | 38.2 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 17 | 3.4 | 3.312 | 3.9 | 2.5 | 0.174 | 0.417 | 2.5 | 3.05 | 3.6 | 3.74 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 17 | 10. | 9.588 | 13. | 6. | 4.382 | 2.093 | 6. | 7.5 | 11. | 12.2 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 17 | 240. | 228.235 | 260. | 170. | 1027.941 | 32.062 | 178. | 190. | 250. | 260. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 17 | 0.4 | 0.418 | 0.6 | 0.3 | 0.007 | 0.081 | 0.3 | 0.4 | 0.5 | 0.52 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 17 | 10. | 10.276 | 13. | 7.7 | 2.166 | 1.472 | 8.02 | 9.3 | 11.5 | 12.2 |
| 01046 | IRON, DISSOLVED (UG/L AS Fe) | 12/12/68-09/20/78 | 17 | 10. | 17.588 | 50. | 9. | 132.632 | 11.517 | 9.8 | 10. | 25. | 34. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS Mn) | 01/01/71-09/20/78 | 17 | 5. | 8.235 | 40. | 0. | 134.191 | 11.584 | 0. | 0. | 10. | 32. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 17 | 524. | 496.647 | 565. | 381. | 3929.993 | 62.69 | 391.4 | 431. | 542. | 558.6 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 17 | 6010. | 6031.172 | 9609.99 | 3320. | 3583109.865 | 1892.91 | 3360. | 4610. | 7124.995 | 9073.99 |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 17 | 0.71 | 0.676 | 0.77 | 0.52 | 0.007 | 0.086 | 0.536 | 0.585 | 0.74 | 0.762 |

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Annual Analysis for 1973 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-------|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 12 | 6.5 | 7.75 | 17. | 2.5 | 25.977 | 5.097 | 2.5 | 3.125 | 13.125 | 16.1 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 22 | 3890. | 4001.364 | 7420. | 1690. | 1517107.576 | 1231.709 | 2573. | 3245. | 4502.5 | 5665. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 3 | 5470. | 5406.667 | 7780. | 2970. | 5787033.333 | 2405.625 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 17 | 836. | 838.706 | 940. | 736. | 3651.096 | 60.424 | 741.6 | 792.5 | 889. | 923.2 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 17 | 8. | 7.935 | 8.2 | 7.3 | 0.066 | 0.257 | 7.38 | 7.85 | 8.1 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 17 | 8. | 7.844 | 8.2 | 7.3 | 0.075 | 0.274 | 7.38 | 7.85 | 8.1 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 17 | 0.01 | 0.014 | 0.05 | 0.006 | 0. | 0.012 | 0.006 | 0.008 | 0.014 | 0.042 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 17 | 164. | 161.118 | 174. | 141. | 116.11 | 10.775 | 142.6 | 152. | 169. | 173.2 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 17 | 200. | 196.412 | 212. | 172. | 174.382 | 13.205 | 173.6 | 185. | 206. | 211.2 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 17 | 0.3 | 0.306 | 0.5 | 0.1 | 0.014 | 0.12 | 0.1 | 0.2 | 0.4 | 0.5 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 17 | 0.03 | 0.042 | 0.12 | 0. | 0.002 | 0.043 | 0. | 0. | 0.09 | 0.096 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.02 | 0.023 | 0.06 | 0.005 | 0. | 0.017 | 0.005 | 0.01 | 0.028 | 0.057 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 17 | 0.01 | 0.016 | 0.04 | 0.005 | 0. | 0.012 | 0.005 | 0.005 | 0.03 | 0.032 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 17 | 280. | 274.706 | 310. | 240. | 538.971 | 23.216 | 240. | 250. | 300. | 302. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 17 | 110. | 114.706 | 140. | 75. | 260.846 | 16.151 | 91. | 110. | 130. | 132. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 17 | 73. | 71.471 | 78. | 62. | 31.265 | 5.591 | 62. | 66.5 | 76.5 | 78. |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 17 | 23. | 23.412 | 27. | 17. | 6.007 | 2.451 | 20.2 | 22. | 25.5 | 26.2 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 17 | 73. | 73.706 | 89. | 59. | 64.846 | 8.053 | 62.2 | 68. | 81.5 | 85. |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 17 | 1.9 | 1.941 | 2.2 | 1.7 | 0.02 | 0.142 | 1.78 | 1.8 | 2.1 | 2.12 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 17 | 37. | 36.353 | 39. | 34. | 1.743 | 1.32 | 34. | 35.5 | 37. | 38.2 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 17 | 3.8 | 3.771 | 4.2 | 2.9 | 0.143 | 0.379 | 2.98 | 3.65 | 4.05 | 4.2 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 17 | 11. | 10.824 | 13. | 9. | 1.654 | 1.286 | 9. | 9.5 | 12. | 12.2 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 17 | 250. | 253.706 | 290. | 210. | 639.721 | 25.293 | 218. | 235. | 275. | 290. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 17 | 0.4 | 0.394 | 0.5 | 0.2 | 0.008 | 0.09 | 0.28 | 0.3 | 0.5 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 17 | 11. | 10.665 | 12. | 9.3 | 0.561 | 0.749 | 9.86 | 10. | 11. | 12. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 17 | 9. | 12.294 | 40. | 5. | 118.221 | 10.873 | 5. | 5. | 14.5 | 32. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 17 ## | 5. | 7.235 | 40. | 5. | 71.816 | 8.474 | 5. | 5. | 5. | 14.4 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 17 | 559. | 549.941 | 613. | 475. | 2239.809 | 47.327 | 477.4 | 505.5 | 593.5 | 610.6 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 17 | 5450. | 6073.529 | 11600. | 3300. | 4229599.265 | 2056.599 | 3996. | 4720. | 7635. | 8888. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 17 | 0.76 | 0.747 | 0.83 | 0.65 | 0.004 | 0.064 | 0.65 | 0.685 | 0.805 | 0.83 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|--------------------------------------------------|-------------------|--------|-------|----------|---------|----------|-------------|----------|-------|--------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 12 | 8.25 | 9.833 | 20. | 3.5 | 36.288 | 6.024 | 3.65 | 4. | 15.5 | 19.55 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 12 | 4150. | 4473.333 | 8950. | 2550. | 3480915.152 | 1865.721 | 2634. | 2930. | 5425. | 8161. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 12 | 3910. | 4164.167 | 7930. | 2040. | 2990262.879 | 1729.238 | 2163. | 2712.5 | 5370. | 7423. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 18 | 868. | 822.611 | 957. | 526. | 18145.31 | 134.705 | 582.7 | 741.25 | 942. | 956.1 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 8 | 8.05 | 8.038 | 8.2 | 7.8 | 0.02 | 0.141 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 8 | 8.047 | 8.017 | 8.2 | 7.8 | 0.02 | 0.142 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 8 | 0.009 | 0.01 | 0.016 | 0.006 | 0. | 0.003 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 17 | 162. | 157.176 | 183. | 116. | 460.779 | 21.466 | 120. | 140. | 176.5 | 181.4 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 17 | 197. | 191.412 | 223. | 141. | 696.132 | 26.384 | 145.8 | 170.5 | 215.5 | 221.4 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 10 | 0. | 0.1 | 1. | 0. | 0.1 | 0.316 | 0. | 0. | 0. | 0.9 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 17 | 0.3 | 0.288 | 0.6 | 0.1 | 0.012 | 0.111 | 0.18 | 0.2 | 0.3 | 0.44 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 17 | 0.03 | 0.023 | 0.15 | 0. | 0.001 | 0.036 | 0. | 0. | 0.03 | 0.054 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.035 | 0.034 | 0.07 | 0.005 | 0. | 0.017 | 0.01 | 0.02 | 0.04 | 0.064 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 17 | 0.01 | 0.01 | 0.05 | 0.005 | 0. | 0.011 | 0.005 | 0.005 | 0.01 | 0.018 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 17 | 280. | 270.588 | 340. | 170. | 2668.382 | 51.656 | 186. | 225. | 315. | 324. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 17 | 120. | 112.471 | 160. | 54. | 929.39 | 30.486 | 63.6 | 86. | 135. | 144. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 17 | 70. | 69.588 | 84. | 45. | 148.257 | 12.176 | 49. | 60. | 81. | 82.4 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 17 | 26. | 23.471 | 32. | 14. | 28.64 | 5.352 | 14.8 | 18.5 | 27.5 | 28.8 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 17 | 78. | 70.118 | 88. | 42. | 193.985 | 13.928 | 46.8 | 59.5 | 80.5 | 83.2 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 17 | 2. | 1.859 | 2.2 | 1.4 | 0.054 | 0.232 | 1.48 | 1.7 | 2. | 2.12 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|--------|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|--------|
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 17 | 35. | 35.706 | 40. | 32. | 3.721 | 1.929 | 32.8 | 35. | 37. | 38.4 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 17 | 3.8 | 3.571 | 4.6 | 1.3 | 0.843 | 0.918 | 1.54 | 3.3 | 4.15 | 4.52 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 17 | 10. | 9.706 | 13. | 5. | 7.221 | 2.687 | 5.8 | 7.5 | 12.5 | 13. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 17 | 260. | 248.235 | 300. | 140. | 2840.441 | 53.296 | 156. | 210. | 300. | 300. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 17 | 0.4 | 0.382 | 0.5 | 0.3 | 0.007 | 0.081 | 0.3 | 0.3 | 0.45 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 17 | 10. | 10.171 | 11. | 8.2 | 0.858 | 0.927 | 8.76 | 9.35 | 11. | 11. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 17 ### | 5. | 28.529 | 140. | 5. | 1699.265 | 41.222 | 5. | 5. | 30. | 124. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 17 ### | 5. | 5. | 5. | 5. | 0. | 0. | 5. | 5. | 5. | 5. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 17 | 559. | 531.118 | 635. | 330. | 10065.36 | 100.326 | 358. | 454. | 625. | 633.4 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 17 | 6130. | 6537.647 | 12800. | 2510. | 9064981.618 | 3010.811 | 2758. | 3745. | 8770. | 10960. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 17 | 0.76 | 0.724 | 0.86 | 0.45 | 0.018 | 0.135 | 0.49 | 0.62 | 0.85 | 0.86 |

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Annual Analysis for 1975 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-------|--------|---------|---------|---------|-------------|-----------|--------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 12 | 6.25 | 8.375 | 19.5 | 1. | 37.142 | 6.094 | 1.3 | 3.5 | 12.5 | 19.05 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 12 | 4225. | 4353. | 7640. | 376. | 3376006.182 | 1837.391 | 1226.2 | 3482.5 | 5625. | 7319. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 12 | 814. | 817.917 | 977. | 617. | 10797.174 | 103.909 | 638.9 | 767. | 915.5 | 963.2 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 12 | 159. | 160.333 | 184. | 129. | 314.424 | 17.732 | 131.1 | 150.75 | 179.75 | 183.1 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 12 | 193.5 | 195.5 | 224. | 157. | 469.545 | 21.669 | 159.7 | 184. | 219.5 | 223.1 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 12 | 0.4 | 0.433 | 0.8 | 0.3 | 0.021 | 0.144 | 0.3 | 0.325 | 0.475 | 0.74 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 12 | 0.03 | 0.038 | 0.15 | 0. | 0.002 | 0.041 | 0. | 0.008 | 0.053 | 0.123 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.02 | 0.023 | 0.06 | 0.01 | 0. | 0.015 | 0.01 | 0.01 | 0.03 | 0.054 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 12 | 0.01 | 0.014 | 0.05 | 0.005 | 0. | 0.012 | 0.005 | 0.006 | 0.018 | 0.041 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 12 | 270. | 275. | 330. | 200. | 1663.636 | 40.788 | 209. | 250. | 315. | 330. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 12 | 115. | 114.917 | 150. | 74. | 573.902 | 23.956 | 79.1 | 96. | 130. | 150. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 12 | 71. | 70.917 | 84. | 53. | 94.265 | 9.709 | 54.5 | 65. | 80.25 | 83.4 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 12 | 23. | 23.833 | 30. | 17. | 16.697 | 4.086 | 17.9 | 21. | 27.5 | 30. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 12 | 70.5 | 70.083 | 81. | 53. | 74.265 | 8.618 | 54.8 | 65.25 | 77.25 | 81. |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 12 | 1.85 | 1.842 | 2. | 1.6 | 0.014 | 0.116 | 1.63 | 1.8 | 1.9 | 2. |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 12 | 35. | 35.417 | 38. | 34. | 1.538 | 1.24 | 34. | 34.25 | 36. | 37.7 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 12 | 3.65 | 3.658 | 4.5 | 2.9 | 0.159 | 0.399 | 3.02 | 3.425 | 3.8 | 4.38 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 12 | 9.5 | 10.25 | 16. | 7. | 7.295 | 2.701 | 7.3 | 8. | 12.75 | 15.1 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 12 | 245. | 244.167 | 300. | 170. | 1481.061 | 38.485 | 176. | 230. | 277.5 | 297. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 12 | 0.4 | 0.375 | 0.5 | 0.3 | 0.004 | 0.062 | 0.3 | 0.3 | 0.4 | 0.47 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 12 | 9.55 | 9.9 | 11. | 8.9 | 0.733 | 0.856 | 8.96 | 9.225 | 11. | 11. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 12 ## | 12.5 | 16.667 | 60. | 5. | 265.152 | 16.283 | 5. | 5. | 20. | 51. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 12 ## | 5. | 16.667 | 60. | 5. | 351.515 | 18.749 | 5. | 5. | 30. | 54. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 12 | 528. | 531.667 | 630. | 391. | 5543.697 | 74.456 | 403.3 | 500. | 606.75 | 628.5 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 12 | 6085. | 6241.75 | 11200. | 511. | 7490264.023 | 2736.835 | 1539.7 | 5285. | 7160. | 10930. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 12 | 0.72 | 0.723 | 0.86 | 0.53 | 0.01 | 0.102 | 0.548 | 0.68 | 0.828 | 0.857 |

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Annual Analysis for 1976 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 13 | 9. | 9.654 | 17. | 2. | 29.474 | 5.429 | 2.6 | 4.25 | 15.5 | 16.6 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 13 | 4080. | 3636.692 | 5510. | 587. | 2676363.897 | 1635.96 | 928.2 | 2300. | 5095. | 5474. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 12 | 815. | 782.167 | 886. | 591. | 10537.242 | 102.651 | 600.6 | 700. | 871.75 | 885.1 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 12 | 156.5 | 155.5 | 178. | 120. | 319.364 | 17.871 | 122.1 | 147.5 | 169. | 177.4 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 12 | 191. | 189.583 | 217. | 146. | 477.356 | 21.848 | 148.7 | 179.75 | 206. | 216.4 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 12 | 0.5 | 0.525 | 0.7 | 0.4 | 0.009 | 0.097 | 0.4 | 0.425 | 0.6 | 0.67 |

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Annual Analysis for 1976 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-------|--------|----------|---------|---------|-------------|-----------|--------|--------|--------|-------|
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 12 | 0.03 | 0.043 | 0.15 | 0. | 0.002 | 0.049 | 0. | 0. | 0.082 | 0.132 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.01 | 0.02 | 0.06 | 0.005 | 0. | 0.019 | 0.005 | 0.005 | 0.035 | 0.057 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 12 | 0.01 | 0.016 | 0.05 | 0.005 | 0. | 0.014 | 0.005 | 0.005 | 0.028 | 0.044 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 13 | 280. | 271.538 | 350. | 200. | 1630.769 | 40.383 | 208. | 240. | 295. | 334. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 12 | 115. | 113.25 | 180. | 76. | 747.295 | 27.337 | 79.9 | 91.5 | 127.5 | 165. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 13 | 72. | 69.923 | 88. | 52. | 91.744 | 9.578 | 54. | 63.5 | 76. | 83.6 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 13 | 24. | 23.154 | 32. | 16. | 17.474 | 4.18 | 16.8 | 20. | 25. | 30.4 |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 10/01/66-08/25/81 | 13 | 68. | 67.615 | 76. | 51. | 56.256 | 7.5 | 53.4 | 64. | 75. | 75.6 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 13 | 1.8 | 1.808 | 2. | 1.6 | 0.014 | 0.119 | 1.6 | 1.75 | 1.9 | 1.96 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 13 | 35. | 35. | 37. | 30. | 3.333 | 1.826 | 31.6 | 34. | 36. | 37. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 13 | 3.5 | 3.431 | 4. | 2.8 | 0.114 | 0.338 | 2.84 | 3.15 | 3.6 | 3.88 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 13 | 9. | 9.154 | 13. | 6. | 4.141 | 2.035 | 6. | 7.5 | 10.5 | 12.2 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 13 | 250. | 241.538 | 310. | 180. | 1380.769 | 37.159 | 184. | 215. | 270. | 298. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 13 | 0.4 | 0.4 | 0.5 | 0.3 | 0.003 | 0.058 | 0.3 | 0.4 | 0.4 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 13 | 10. | 9.969 | 11. | 8.9 | 0.659 | 0.812 | 8.94 | 9.15 | 11. | 11. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 13 | 20. | 32.692 | 100. | 5. | 873.397 | 29.553 | 5. | 12.5 | 45. | 92. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 13 ## | 5. | 10.769 | 40. | 5. | 136.859 | 11.699 | 5. | 5. | 12.5 | 36. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 12 | 527.5 | 519.417 | 629. | 394. | 4968.811 | 70.49 | 402.4 | 472.25 | 576.75 | 618.5 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 12 | 5490. | 4906.417 | 8560. | 997. | 6290228.629 | 2508.033 | 1363.9 | 2477.5 | 7225. | 8230. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 12 | 0.72 | 0.708 | 0.86 | 0.54 | 0.009 | 0.097 | 0.549 | 0.645 | 0.788 | 0.845 |

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Annual Analysis for 1977 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-------|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 12 | 6.5 | 6.542 | 10. | 3. | 4.93 | 2.22 | 3.3 | 4.625 | 8.75 | 9.7 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 12 | 1530. | 1943.083 | 4520. | 847. | 982384.992 | 991.153 | 979.9 | 1365. | 2250. | 4064. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 12 | 912. | 920.167 | 1060. | 791. | 9286.879 | 96.368 | 791.6 | 836.25 | 1022.5 | 1051. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 2 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 2 | 8.1 | 8.1 | 8.1 | 8.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 2 | 0.008 | 0.008 | 0.008 | 0.008 | 0. | 0. | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 12 | 180. | 174.5 | 190. | 153. | 138.818 | 11.782 | 155.1 | 163.25 | 180. | 190. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 12 | 220. | 213.083 | 230. | 186. | 198.447 | 14.087 | 188.7 | 199.5 | 220. | 230. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 10 | 0.5 | 0.52 | 0.7 | 0.4 | 0.011 | 0.103 | 0.4 | 0.4 | 0.6 | 0.69 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 10 | 0.03 | 0.039 | 0.12 | 0. | 0.001 | 0.032 | 0.003 | 0.03 | 0.038 | 0.114 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.02 | 0.016 | 0.03 | 0.005 | 0. | 0.009 | 0.005 | 0.006 | 0.02 | 0.03 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 10 | 0.01 | 0.014 | 0.04 | 0.005 | 0. | 0.01 | 0.006 | 0.01 | 0.013 | 0.038 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 12 | 320. | 323.333 | 360. | 270. | 1078.788 | 32.845 | 273. | 295. | 360. | 360. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 12 | 145. | 150. | 180. | 120. | 545.455 | 23.355 | 120. | 130. | 177.5 | 180. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 12 | 83.5 | 82.333 | 93. | 68. | 77.515 | 8.804 | 68.6 | 74. | 90. | 92.4 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 12 | 28. | 28.75 | 34. | 24. | 9.659 | 3.108 | 24.3 | 27. | 32. | 33.4 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 12 | 83.5 | 82.417 | 94. | 71. | 80.447 | 8.969 | 71.3 | 74. | 91.5 | 93.4 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 12 | 2.05 | 2. | 2.2 | 1.8 | 0.018 | 0.135 | 1.8 | 1.9 | 2.1 | 2.17 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 12 | 35. | 35.25 | 37. | 33. | 1.114 | 1.055 | 33.3 | 35. | 36. | 36.7 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 12 | 3.75 | 3.767 | 4.3 | 3.1 | 0.153 | 0.392 | 3.13 | 3.525 | 4.175 | 4.27 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 12 | 12.5 | 12.667 | 19. | 9. | 7.697 | 2.774 | 9.3 | 10.25 | 13.75 | 18.1 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 12 | 295. | 294.167 | 340. | 240. | 1208.333 | 34.761 | 243. | 262.5 | 327.5 | 340. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 12 | 0.5 | 0.5 | 0.6 | 0.4 | 0.004 | 0.06 | 0.4 | 0.5 | 0.5 | 0.6 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 12 | 11. | 10.8 | 12. | 9.6 | 0.589 | 0.768 | 9.72 | 10. | 11. | 12. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 12 | 20. | 18.75 | 50. | 5. | 227.841 | 15.094 | 5. | 5. | 27.5 | 47. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 12 ## | 5. | 7.917 | 20. | 4. | 33.356 | 5.775 | 4.3 | 5. | 8. | 20. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 12 | 618. | 622.5 | 695. | 523. | 3905.182 | 62.491 | 527.8 | 571. | 691. | 694.4 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 12 | 2605. | 3170.833 | 6380. | 1590. | 1758099.242 | 1325.933 | 1743. | 2212.5 | 4070. | 5777. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 12 | 0.84 | 0.846 | 0.95 | 0.71 | 0.007 | 0.085 | 0.716 | 0.775 | 0.938 | 0.947 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|------|--------|----------|---------|---------|--------------|-----------|-------|--------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 12 | 6.75 | 9.333 | 19. | 3. | 33.97 | 5.828 | 3. | 4.25 | 14.125 | 18.85 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 12 | 3630. | 4575.833 | 10900. | 2110. | 6602062.879 | 2569.448 | 2143. | 2970. | 5992.5 | 9898. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 12 | 959. | 926.25 | 1150. | 589. | 38470.386 | 196.139 | 613.9 | 757.75 | 1097.5 | 1147. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 12 | 8. | 8.033 | 8.3 | 7.8 | 0.026 | 0.161 | 7.8 | 7.925 | 8.1 | 8.3 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 12 | 8. | 8.007 | 8.3 | 7.8 | 0.027 | 0.164 | 7.8 | 7.925 | 8.1 | 8.3 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 12 | 0.01 | 0.01 | 0.016 | 0.005 | 0. | 0.004 | 0.005 | 0.008 | 0.012 | 0.016 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 11 | 180. | 167.273 | 210. | 110. | 1281.818 | 35.802 | 114. | 130. | 200. | 208. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 9 | 230. | 211.111 | 250. | 140. | 1636.111 | 40.449 | 140. | 170. | 240. | 250. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 12 | 0.6 | 0.519 | 0.9 | 0.03 | 0.051 | 0.227 | 0.111 | 0.4 | 0.675 | 0.84 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 9 | 0.03 | 0.047 | 0.15 | 0. | 0.002 | 0.043 | 0. | 0.03 | 0.06 | 0.15 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 12 | 0.02 | 0.02 | 0.06 | 0.005 | 0. | 0.016 | 0.005 | 0.006 | 0.028 | 0.051 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 9 | 0.01 | 0.016 | 0.05 | 0.005 | 0. | 0.014 | 0.005 | 0.01 | 0.02 | 0.05 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 12 | 325. | 321.667 | 410. | 190. | 7087.879 | 84.19 | 199. | 250. | 407.5 | 410. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 11 | 180. | 160.273 | 220. | 80. | 2758.818 | 52.524 | 82.6 | 110. | 210. | 218. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 12 | 85. | 81.917 | 110. | 50. | 413.174 | 20.327 | 53. | 61.25 | 100. | 107. |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 12 | 28. | 28.5 | 38. | 17. | 65.182 | 8.074 | 17.3 | 22.25 | 36.75 | 38. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 12 | 89. | 83.5 | 110. | 45. | 408.273 | 20.206 | 48.9 | 67.25 | 100. | 107. |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 12 | 2.1 | 2.033 | 2.4 | 1.4 | 0.073 | 0.271 | 1.49 | 1.9 | 2.2 | 2.34 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 12 | 35.5 | 35.833 | 38. | 33. | 2.515 | 1.586 | 33.3 | 35. | 37. | 38. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 12 | 4.35 | 4.033 | 4.9 | 2.6 | 0.632 | 0.795 | 2.69 | 3.225 | 4.6 | 4.87 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 12 | 13.5 | 12.583 | 20. | 6. | 17.902 | 4.231 | 6.6 | 8.25 | 15.75 | 19.1 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 12 | 315. | 304.167 | 390. | 170. | 6153.788 | 78.446 | 179. | 242.5 | 377.5 | 390. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 12 | 0.45 | 0.408 | 0.6 | 0.1 | 0.023 | 0.151 | 0.16 | 0.3 | 0.5 | 0.6 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 12 | 9.7 | 8.967 | 11. | 0.2 | 8.488 | 2.913 | 2.63 | 8.65 | 10.75 | 11. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 9 ## | 5. | 5. | 5. | 5. | 0. | 0. | 5. | 5. | 5. | 5. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 9 ## | 5. | 6.889 | 20. | 5. | 24.611 | 4.961 | 5. | 5. | 6. | 20. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 11 | 734. | 630.455 | 792. | 371. | 24124.273 | 155.32 | 384.2 | 493. | 760. | 787.6 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 11 | 6320. | 7590.909 | 16900. | 3730. | 18708209.091 | 4325.299 | 3862. | 4400. | 7470. | 16540. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 11 | 1. | 0.856 | 1.08 | 0.5 | 0.046 | 0.213 | 0.518 | 0.67 | 1.03 | 1.074 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|-------|--------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 11 | 7. | 6.818 | 14. | 2. | 20.514 | 4.529 | 2.1 | 3. | 12. | 13.8 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 11 | 3070. | 3100.909 | 4670. | 1980. | 550729.091 | 742.111 | 2016. | 2600. | 3480. | 4438. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 10 | 885.5 | 898. | 972. | 834. | 1990.222 | 44.612 | 837.1 | 865.75 | 940.5 | 970.2 |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 8 | 8. | 8.063 | 8.4 | 7.8 | 0.046 | 0.213 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 8 | 8. | 8.02 | 8.4 | 7.8 | 0.048 | 0.218 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 8 | 0.01 | 0.01 | 0.016 | 0.004 | 0. | 0.004 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 11 | 160. | 159.091 | 180. | 140. | 109.091 | 10.445 | 142. | 150. | 160. | 178. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 11 | 0.4 | 0.455 | 0.7 | 0.2 | 0.023 | 0.151 | 0.22 | 0.4 | 0.5 | 0.7 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 10 | 0.01 | 0.01 | 0.02 | 0. | 0. | 0.005 | 0.001 | 0.009 | 0.01 | 0.019 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 11 | 300. | 299.091 | 330. | 270. | 389.091 | 19.725 | 270. | 290. | 320. | 328. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 11 | 140. | 140. | 170. | 110. | 420. | 20.494 | 112. | 120. | 160. | 170. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 11 | 75. | 75.909 | 87. | 68. | 32.091 | 5.665 | 68.2 | 70. | 80. | 85.6 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 11 | 27. | 26.727 | 29. | 24. | 2.218 | 1.489 | 24.2 | 26. | 28. | 28.8 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 11 | 79. | 80.727 | 92. | 73. | 46.618 | 6.828 | 73.2 | 74. | 89. | 91.6 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 11 | 2. | 2.027 | 2.3 | 1.8 | 0.028 | 0.168 | 1.82 | 1.9 | 2.2 | 2.3 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 11 | 36. | 36.545 | 40. | 34. | 3.673 | 1.916 | 34. | 35. | 38. | 39.8 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 11 | 3.6 | 3.618 | 4.1 | 2.2 | 0.284 | 0.533 | 2.44 | 3.5 | 4. | 4.08 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 11 | 13. | 13. | 17. | 10. | 7.4 | 2.72 | 10. | 10. | 16. | 16.8 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 11 | 290. | 292.727 | 320. | 270. | 341.818 | 18.488 | 270. | 270. | 310. | 320. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 11 | 0.4 | 0.409 | 0.5 | 0.3 | 0.003 | 0.054 | 0.32 | 0.4 | 0.4 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 11 | 10. | 10.155 | 12. | 8.1 | 1.517 | 1.232 | 8.28 | 9.2 | 11. | 12. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 11 | 602. | 600.909 | 647. | 557. | 937.491 | 30.618 | 557.4 | 570. | 623. | 644.8 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 11 | 5070. | 5051.818 | 7860. | 3140. | 1784376.364 | 1335.806 | 3162. | 4160. | 5890. | 7468. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 11 | 0.82 | 0.819 | 0.88 | 0.76 | 0.002 | 0.042 | 0.76 | 0.78 | 0.85 | 0.878 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12 | 7.25 | 8.625 | 17.5 | 3. | 26.369 | 5.135 | 3. | 5. | 12. | 17.5 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 12 | 16. | 15.208 | 33. | -2. | 104.248 | 10.21 | 4.6 | 5.5 | 20.75 | 31.65 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 12 | 3075. | 3028.333 | 4270. | 1510. | 512469.697 | 715.87 | 1786. | 2630. | 3385. | 4162. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12 | 998.5 | 970. | 1180. | 790. | 14026.364 | 118.433 | 796.9 | 864. | 1047.5 | 1153. |
| 00400 | PH (STANDARD UNITS) | 8 | 8.15 | 8.138 | 8.2 | 8. | 0.006 | 0.074 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 8 | 8.147 | 8.132 | 8.2 | 8. | 0.006 | 0.075 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 8 | 0.007 | 0.007 | 0.01 | 0.006 | 0. | 0.001 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 9 | 170. | 172.222 | 190. | 160. | 169.444 | 13.017 | 160. | 160. | 185. | 190. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 12 | 0.6 | 0.8 | 2.2 | 0.4 | 0.351 | 0.592 | 0.43 | 0.5 | 0.675 | 2.11 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 12 | 0.02 | 0.024 | 0.05 | 0.01 | 0. | 0.013 | 0.01 | 0.013 | 0.038 | 0.047 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 11 | 290. | 308.182 | 370. | 260. | 1356.364 | 36.829 | 262. | 270. | 340. | 364. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 11 | 130. | 140.636 | 210. | 97. | 1134.455 | 33.682 | 99.6 | 110. | 160. | 204. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 11 | 73. | 77.455 | 92. | 65. | 85.273 | 9.234 | 65.6 | 69. | 86. | 90.8 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 11 | 27. | 27.636 | 33. | 23. | 12.455 | 3.529 | 23. | 24. | 31. | 32.6 |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 11 | 87. | 85. | 95. | 74. | 53.8 | 7.335 | 74.4 | 77. | 92. | 94.4 |
| 00931 | SODIUM ADSORPTION RATIO | 11 | 2.1 | 2.127 | 2.2 | 2. | 0.006 | 0.079 | 2. | 2.1 | 2.2 | 2.2 |
| 00932 | SODIUM, PERCENT | 11 | 37. | 37.455 | 39. | 36. | 1.073 | 1.036 | 36. | 37. | 38. | 39. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 12 | 4.25 | 4.167 | 4.5 | 3.7 | 0.061 | 0.246 | 3.73 | 3.95 | 4.3 | 4.47 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 12 | 12. | 11.667 | 15. | 3. | 10.424 | 3.229 | 5.1 | 11. | 14.5 | 15. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 12 | 310. | 304.167 | 400. | 240. | 2244.697 | 47.378 | 246. | 260. | 337.5 | 385. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 12 | 0.5 | 0.458 | 0.5 | 0.3 | 0.006 | 0.079 | 0.3 | 0.425 | 0.5 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 11 | 9.8 | 9.518 | 11. | 8.4 | 0.664 | 0.815 | 8.4 | 8.5 | 10. | 10.8 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 11 | 621. | 622.273 | 735. | 539. | 4665.418 | 68.304 | 541.6 | 556. | 677. | 727.6 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 11 | 4930. | 4871.818 | 6910. | 2850. | 1246796.364 | 1116.6 | 3018. | 4080. | 5830. | 6710. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 11 | 0.84 | 0.845 | 1. | 0.73 | 0.009 | 0.093 | 0.734 | 0.76 | 0.92 | 0.99 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 9 | 5. | 7.111 | 15.5 | 4. | 19.361 | 4.4 | 4. | 4.5 | 10. | 15.5 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 9 | 12. | 14.611 | 24. | 9. | 32.736 | 5.722 | 9. | 10.25 | 21. | 24. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 9 | 1930. | 2904.444 | 9990. | 1010. | 7551652.778 | 2748.027 | 1010. | 1455. | 2995. | 9990. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 9 | 960. | 950.333 | 1070. | 844. | 6310. | 79.436 | 844. | 874. | 1020. | 1070. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 9 | 0.5 | 0.457 | 0.7 | 0.01 | 0.034 | 0.185 | 0.01 | 0.45 | 0.5 | 0.7 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 8 | 0.02 | 0.02 | 0.04 | 0.01 | 0. | 0.011 | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 9 | 320. | 316.667 | 360. | 270. | 1025. | 32.016 | 270. | 290. | 350. | 360. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 2 | 125. | 125. | 140. | 110. | 450. | 21.213 | ** | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 9 | 81. | 80.889 | 93. | 70. | 61.361 | 7.833 | 70. | 74. | 88. | 93. |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 9 | 29. | 28.333 | 32. | 24. | 8.75 | 2.958 | 24. | 26. | 31.5 | 32. |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 9 | 86. | 85.111 | 93. | 79. | 25.111 | 5.011 | 79. | 79.5 | 89. | 93. |
| 00931 | SODIUM ADSORPTION RATIO | 9 | 2.1 | 2.1 | 2.3 | 2. | 0.01 | 0.1 | 2. | 2. | 2.15 | 2.3 |
| 00932 | SODIUM, PERCENT | 9 | 36. | 36.444 | 38. | 35. | 1.778 | 1.333 | 35. | 35. | 38. | 38. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 9 | 3.6 | 3.711 | 4.2 | 3.4 | 0.066 | 0.257 | 3.4 | 3.5 | 3.9 | 4.2 |
| 00940 | CHLORIDE,TOTAL IN WATER MG/L | 9 | 12. | 13.333 | 24. | 11. | 17.25 | 4.153 | 11. | 11. | 13.5 | 24. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------------------|-----|--------|----------|---------|---------|--------------|-----------|-------|-------|-------|--------|
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 9 | 320. | 307.778 | 370. | 270. | 1094.444 | 33.082 | 270. | 275. | 325. | 370. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 9 | 0.4 | 0.444 | 0.5 | 0.4 | 0.003 | 0.053 | 0.4 | 0.4 | 0.5 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 9 | 9.5 | 9.456 | 9.9 | 9.1 | 0.063 | 0.251 | 9.1 | 9.2 | 9.6 | 9.9 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 9 | 637. | 629.222 | 684. | 561. | 2419.444 | 49.188 | 561. | 580.5 | 682. | 684. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 9 | 3340. | 4937.778 | 17600. | 1850. | 23573969.444 | 4855.303 | 1850. | 2440. | 4690. | 17600. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 9 | 0.87 | 0.856 | 0.93 | 0.76 | 0.004 | 0.067 | 0.76 | 0.79 | 0.925 | 0.93 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 5 | 12. | 11. | 17. | 6. | 20.5 | 4.528 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 5 | 14.5 | 13.5 | 24. | -1. | 83.5 | 9.138 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 5 | 2730. | 3580. | 5220. | 2320. | 1933050. | 1390.342 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 5 | 763. | 736.6 | 950. | 502. | 44139.8 | 210.095 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-----------|-----------|-------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 9 | 13. | 12.833 | 21.5 | 3. | 58.062 | 7.62 | 3. | 5.25 | 20.25 | 21.5 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 8 | 16. | 15.313 | 33.5 | -4.5 | 136.424 | 11.68 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 9 | 3770. | 4063.333 | 6020. | 2740. | 1040475. | 1020.037 | 2740. | 3330. | 4855. | 6020. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 9 | 765. | 725.444 | 883. | 570. | 11758.778 | 108.438 | 570. | 610.5 | 808.5 | 883. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 6 | 6. | 7.583 | 13.5 | 3.5 | 20.642 | 4.543 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 6 | 13.25 | 13. | 23.5 | 3. | 67.7 | 8.228 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 7 | 3880. | 4054.286 | 6100. | 2910. | 1259528.571 | 1122.287 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 7 | 780. | 768.286 | 865. | 650. | 6448.905 | 80.305 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-----------|-----------|------|-------|-------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 9 | 7.5 | 6.944 | 11. | 1.5 | 9.528 | 3.087 | 1.5 | 4.5 | 9.5 | 11. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 9 | 12.5 | 9.778 | 28. | -7. | 134.819 | 11.611 | 2. | 0.25 | 18.25 | 28. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 9 | 2140. | 2254.667 | 3340. | 332. | 870266. | 932.88 | 332. | 1835. | 3020. | 3340. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 9 | 850. | 733.222 | 1020. | 285. | 66167.694 | 257.231 | 285. | 466.5 | 913. | 1020. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 4 | 11.5 | 11.25 | 18. | 4. | 49.417 | 7.03 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 4 | 18. | 17. | 26.5 | 5.5 | 80.833 | 8.991 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 6 | 3740. | 3808.333 | 6020. | 2360. | 1614576.667 | 1270.66 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 6 | 900. | 839. | 1030. | 580. | 45558. | 213.443 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 6 | 5. | 6.25 | 11.5 | 3.5 | 8.975 | 2.996 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 6 | 16.5 | 6.917 | 23.5 | -10. | 193.442 | 13.908 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 8 | 2810. | 2676.25 | 3900. | 1540. | 587769.643 | 766.661 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 8 | 832.5 | 790. | 975. | 255. | 49628.571 | 222.775 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 7 | 9. | 7.857 | 12.5 | 4. | 10.226 | 3.198 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 7 | 14.5 | 15.571 | 27.5 | 2. | 83.619 | 9.144 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 7 | 1870. | 1924.286 | 2490. | 1390. | 149261.905 | 386.344 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 7 | 955. | 968.571 | 1140. | 850. | 7705.952 | 87.784 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 7 | 5. | 6. | 11. | 3. | 7.333 | 2.708 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 4 | 5.25 | 8.375 | 20. | 3. | 62.229 | 7.889 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 7 | 1760. | 1975.714 | 3160. | 1560. | 297161.905 | 545.126 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 7 | 1030. | 993.571 | 1090. | 830. | 10705.952 | 103.47 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|-------|---------|---------|-----------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 10 | 6.25 | 7.35 | 13.5 | 2. | 21.558 | 4.643 | 2.05 | 2.875 | 12.625 | 13.45 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 6 | 13.5 | 14. | 20. | 9. | 21.2 | 4.604 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 10 | 2225. | 2433. | 3460. | 1580. | 397490. | 630.468 | 1617. | 1987.5 | 3140. | 3446. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 10 | 895. | 858.7 | 995. | 600. | 15448.011 | 124.29 | 610. | 775. | 947.75 | 992. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|-------|-------|-------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 9 | 6. | 9.278 | 17. | 3. | 37.507 | 6.124 | 3. | 3.75 | 15.75 | 17. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 4 | 10.5 | 11.5 | 19. | 6. | 35.5 | 5.958 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 9 | 2780. | 3830. | 12100. | 1920. | 10192275. | 3192.534 | 1920. | 2205. | 3890. | 12100. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 9 | 830. | 813.111 | 990. | 564. | 25441.111 | 159.503 | 564. | 669. | 962.5 | 990. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 6 | 7. | 7.667 | 13. | 3.5 | 14.967 | 3.869 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 6 | 2545. | 2601.667 | 3260. | 1920. | 263856.667 | 513.67 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 6 | 787.5 | 770.833 | 915. | 600. | 15354.167 | 123.912 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|---------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 6 | 6.5 | 7.25 | 13. | 3. | 17.675 | 4.204 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 4 | 7.75 | 7.5 | 10.5 | 4. | 7.167 | 2.677 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 7 | 3090. | 3670. | 6640. | 2020. | 2401333.333 | 1549.624 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 7 | 892. | 880.286 | 1080. | 540. | 30082.238 | 173.442 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|---------|---------|---------|------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 8 | 6.25 | 7.563 | 14. | 4.5 | 11.888 | 3.448 | ** | ** | ** | ** |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 8 | 18.75 | 16.563 | 23. | 2. | 48.817 | 6.987 | ** | ** | ** | ** |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 8 | 2135. | 2081.25 | 3200. | 1220. | 374898.214 | 612.289 | ** | ** | ** | ** |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 8 | 902.5 | 901.75 | 990. | 830. | 4004.786 | 63.283 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 11 | 5. | 7.909 | 17. | 3. | 24.991 | 4.999 | 3.3 | 4.5 | 14. | 16.6 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 11 | 16. | 9.909 | 22. | -10. | 122.691 | 11.077 | 1.8 | -3. | 20. | -3.6 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 11 | 2600. | 3850.909 | 11900. | 1660. | 9245209.091 | 3040.594 | 1662. | 1800. | 5370. | 10670. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 11 | 844. | 866.182 | 1110. | 615. | 35386.764 | 188.114 | 616.6 | 630. | 1050. | 1098. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

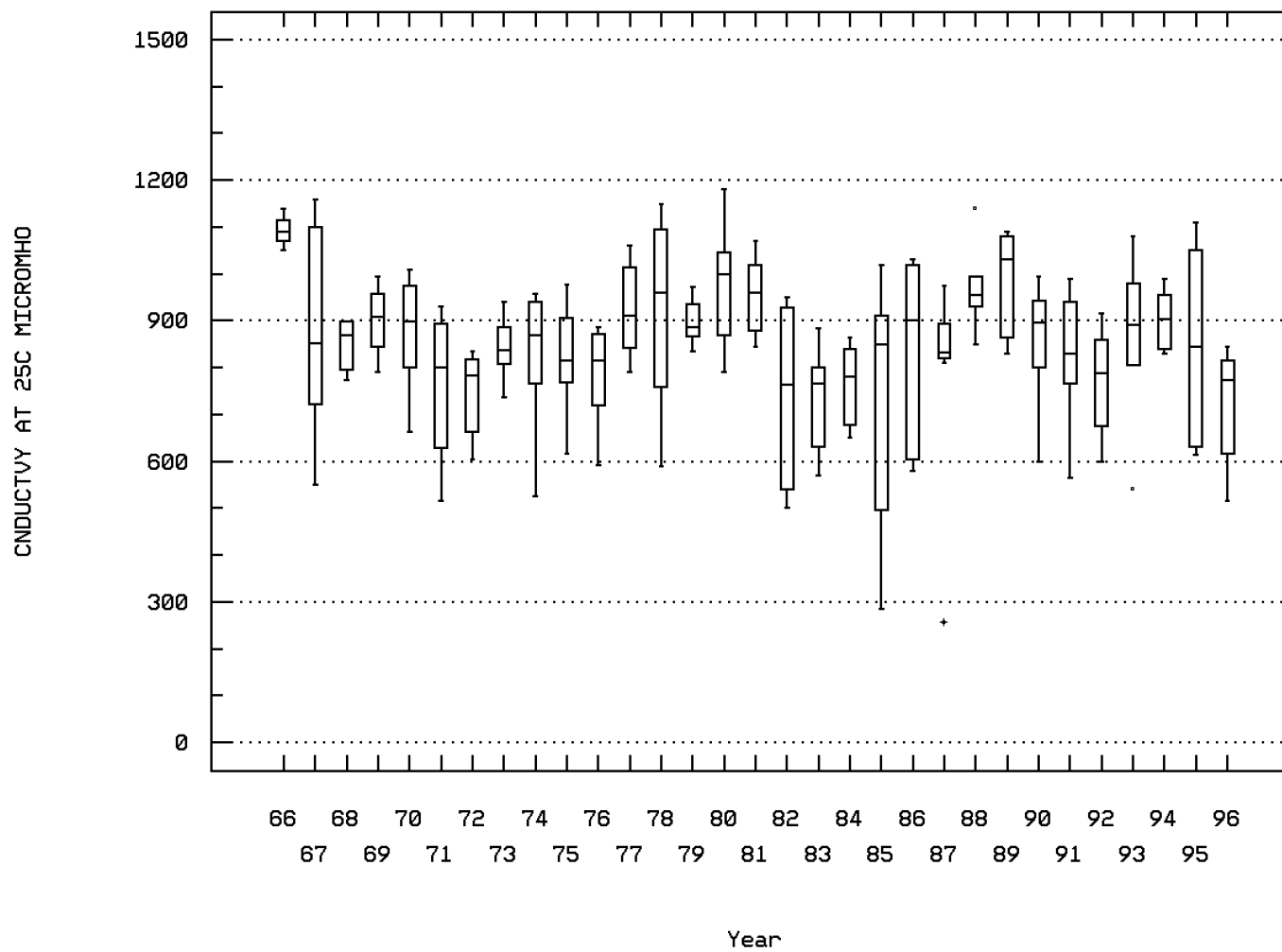
Annual Analysis for 1996 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|-------|-------|-------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 9 | 6. | 10. | 19.5 | 4. | 47.938 | 6.924 | 4. | 4.25 | 18.5 | 19.5 |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 9 | 15. | 15.667 | 25. | 3. | 78. | 8.832 | 3. | 7.5 | 24. | 25. |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 9 | 2930. | 3978.889 | 6950. | 2010. | 3038686.111 | 1743.183 | 2010. | 2700. | 5705. | 6950. |
| 00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 9 | 773. | 721.889 | 845. | 516. | 16098.111 | 126.878 | 516. | 584. | 822.5 | 845. |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0180 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN RIVER NEAR ST. XAVIER, MT.

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-------|--------|----------|---------|---------|-------------|-----------|--------|--------|----------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 173 | 6.5 | 7.996 | 20.5 | 1. | 25.821 | 5.081 | 3. | 3.75 | 12.25 | 16. |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 80 | 10.5 | 9.319 | 28. | -10. | 71.755 | 8.471 | 3.1 | 7.5 | 16. | 21.9 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 118 | 3630. | 3595.72 | 6700. | 358. | 1292355.981 | 1136.818 | 2211.5 | 2830. | 4162.5 | 5080. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 143 | 2930. | 2977.497 | 7780. | 332. | 1293846.209 | 1137.474 | 1616. | 2200. | 3620. | 4464. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 231 | 846. | 838.857 | 1160. | 255. | 22666.253 | 150.553 | 624.4 | 773. | 936. | 1020. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 110 | 8. | 7.938 | 8.4 | 7.3 | 0.066 | 0.256 | 7.6 | 7.8 | 8.1 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 110 | 8. | 7.856 | 8.4 | 7.3 | 0.072 | 0.269 | 7.6 | 7.8 | 8.1 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 110 | 0.01 | 0.014 | 0.05 | 0.004 | 0. | 0.01 | 0.006 | 0.008 | 0.016 | 0.025 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 09/01/72-09/20/78 | 28 | 2.95 | 4.136 | 16. | 1.3 | 9.931 | 3.151 | 2.09 | 2.425 | 5.125 | 7.23 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 140 | 160.5 | 161.114 | 216. | 107. | 384.188 | 19.601 | 136.3 | 150.25 | 174. | 184. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 122 | 197. | 196.59 | 263. | 130. | 606.872 | 24.635 | 163.2 | 183.75 | 215. | 225.7 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 88 | 0. | 0.091 | 6. | 0. | 0.451 | 0.672 | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 99 | 0.4 | 0.43 | 2.2 | 0. | 0.082 | 0.287 | 0.2 | 0.3 | 0.5 | 0.6 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 75 | 0.03 | 0.032 | 0.15 | 0. | 0.001 | 0.037 | 0. | 0. | 0.03 | 0.09 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 92 | 0.02 | 0.03 | 0.47 | 0. | 0.002 | 0.05 | 0.005 | 0.01 | 0.04 | 0.05 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 60 | 0.01 | 0.013 | 0.05 | 0. | 0. | 0.012 | 0.005 | 0.005 | 0.01 | 0.03 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 150 | 280. | 284.387 | 410. | 160. | 2384.668 | 48.833 | 230.2 | 260. | 310. | 350. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 10/01/66-02/24/81 | 142 | 120. | 121.19 | 210. | 45. | 1069.531 | 32.704 | 83. | 100. | 140. | 173.5 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 10/01/66-08/25/81 | 146 | 72.5 | 72.726 | 100. | 43. | 131.911 | 11.485 | 60.7 | 65.75 | 80. | 88.3 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/01/66-08/25/81 | 146 | 24. | 24.712 | 38. | 13. | 25.434 | 5.043 | 19.4 | 22. | 27. | 32. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 10/01/66-08/25/81 | 146 | 76.5 | 77.473 | 118. | 42. | 216.113 | 14.701 | 59. | 69.75 | 84. | 99.3 |
| 00931 | SODIUM ADSORPTION RATIO | 10/01/66-08/25/81 | 146 | 2. | 2.003 | 2.6 | 1.4 | 0.059 | 0.243 | 1.7 | 1.8 | 2.1 | 2.33 |
| 00932 | SODIUM, PERCENT | 10/01/66-08/25/81 | 146 | 37. | 36.849 | 42. | 30. | 3.77 | 1.942 | 34. | 36. | 38. | 39. |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 10/01/66-08/25/81 | 147 | 3.7 | 3.852 | 22. | 1.3 | 2.603 | 1.613 | 3. | 3.5 | 4.1 | 4.4 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 10/01/66-08/25/81 | 146 | 10. | 10.603 | 20. | 5. | 7.151 | 2.674 | 7.7 | 9. | 12. | 14.3 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 10/01/66-08/25/81 | 150 | 270. | 270.56 | 394. | 140. | 2891.698 | 53.775 | 200. | 240. | 303. | 339.2 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 10/01/66-08/25/81 | 146 | 0.4 | 0.423 | 0.8 | 0.1 | 0.01 | 0.1 | 0.3 | 0.4 | 0.5 | 0.5 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 10/01/66-08/25/81 | 146 | 11. | 10.578 | 14. | 0.2 | 1.706 | 1.306 | 9.3 | 10. | 11. | 12. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 10/01/66-06/06/74 | 57 | 120. | 122.807 | 300. | 60. | 1466.051 | 38.289 | 82. | 100.5 | 140. | 170. |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 12/12/68-09/20/78 | 82 | 10. | 25.524 | 210. | 0. | 1496.549 | 38.685 | 5. | 5. | 30. | 74. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/01/71-09/20/78 | 75 ## | 5. | 11.613 | 160. | 0. | 613.348 | 24.766 | 0. | 5. | 5. | 27. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 10/01/67-08/25/81 | 132 | 561. | 562.197 | 792. | 327. | 6932.007 | 83.259 | 451.6 | 512.5 | 613. | 668.2 |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 10/01/66-08/25/81 | 148 | 5385. | 5133.899 | 9609.99 | 511. | 3398702.636 | 1843.557 | 2528. | 3700. | 6247.493 | 7477. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 10/01/66-08/25/81 | 148 | 0.78 | 0.79 | 1.15 | 0.44 | 0.02 | 0.142 | 0.627 | 0.702 | 0.867 | 0.951 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0180

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------------------|-----|--------|----------|---------|---------|-------------|-----------|-------|--------|--------|-------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/14/67-09/03/96 | 46 | 5.5 | 6.076 | 21.5 | 2. | 8.722 | 2.953 | 3.35 | 4.5 | 7. | 8.65 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 07/23/69-09/03/96 | 23 | 18. | 16.696 | 25. | 6. | 22.699 | 4.764 | 7.6 | 14. | 20. | 21. |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 10/01/66-09/10/74 | 30 | 5091.5 | 5107.967 | 10700. | 1670. | 6239076.999 | 2497.814 | 1751. | 2567.5 | 6507. | 8167. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 10/02/73-09/03/96 | 38 | 2760. | 3518.421 | 9990. | 1400. | 3986510.953 | 1996.625 | 1501. | 1987.5 | 4737.5 | 6273. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/01/66-09/03/96 | 57 | 939. | 944.14 | 1180. | 740. | 9120.373 | 95.501 | 817.8 | 874.5 | 1020. | 1074. |
| 00400 | PH (STANDARD UNITS) | 10/01/66-09/16/80 | 29 | 8. | 7.886 | 8.5 | 6.6 | 0.121 | 0.348 | 7.5 | 7.8 | 8.1 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 10/01/66-09/16/80 | 29 | 8. | 7.656 | 8.5 | 6.6 | 0.176 | 0.419 | 7.5 | 7.8 | 8.1 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/01/66-09/16/80 | 29 | 0.01 | 0.022 | 0.251 | 0.003 | 0.002 | 0.045 | 0.006 | 0.008 | 0.016 | 0.032 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 09/01/72-09/20/78 | 9 | 3.8 | 4.833 | 14. | 1.7 | 13.338 | 3.652 | 1.7 | 2.75 | 5.3 | 14. |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 10/01/66-09/16/80 | 36 | 180.5 | 180.528 | 207. | 141. | 220.885 | 14.862 | 159.1 | 174.25 | 190. | 200. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 10/01/66-09/20/78 | 31 | 220. | 220.226 | 252. | 172. | 314.647 | 17.738 | 192. | 213. | 230. | 243.4 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 10/01/66-10/01/74 | 22 | 0. | 0.136 | 3. | 0. | 0.409 | 0.64 | 0. | 0. | 0. | 0. |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 01/01/71-08/25/81 | 28 | 0.4 | 0.38 | 0.9 | 0.01 | 0.046 | 0.215 | 0.094 | 0.2 | 0.5 | 0.62 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 01/01/71-09/20/78 | 21 | 0.03 | 0.024 | 0.15 | 0. | 0.001 | 0.035 | 0. | 0. | 0.03 | 0.06 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 07/23/69-07/28/81 | 26 | 0.02 | 0.023 | 0.07 | 0.005 | 0. | 0.019 | 0.005 | 0.01 | 0.025 | 0.053 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 02/01/72-09/20/78 | 18 | 0.005 | 0.01 | 0.05 | 0. | 0. | 0.012 | 0. | 0.005 | 0.01 | 0.023 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 10/01/66-08/25/81 | 40 | 320. | 324.1 | 410. | 250. | 1393.221 | 37.326 | 270. | 300. | 348. | 379.4 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|----------------------------------------------|-------|---------|----------|---------|---------|-------------|-----------|-------|--------|--------|--------|
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 34 | 130. | 143. | 220. | 90. | 806.303 | 28.395 | 110. | 128.25 | 160.75 | 180. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 38 | 81. | 82.395 | 110. | 62. | 94.083 | 9.7 | 70.8 | 75.75 | 90. | 95.1 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 38 | 28. | 28.474 | 37. | 17. | 15.067 | 3.882 | 23. | 26. | 31.25 | 34. |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 38 | 84.5 | 85.526 | 108. | 70. | 98.797 | 9.94 | 71.9 | 78. | 90.5 | 100.6 |
| 00931 | SODIUM ADSORPTION RATIO | 38 | 2.1 | 2.084 | 2.5 | 1.8 | 0.026 | 0.162 | 1.9 | 2. | 2.2 | 2.31 |
| 00932 | SODIUM, PERCENT | 38 | 35.5 | 36.053 | 41. | 34. | 2.592 | 1.61 | 34. | 35. | 37. | 38.1 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 39 | 4.1 | 4.031 | 5.1 | 1.7 | 0.415 | 0.644 | 3.6 | 3.8 | 4.5 | 4.6 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 39 | 13. | 13.231 | 24. | 10. | 5.866 | 2.422 | 11. | 12. | 14. | 16. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 41 | 300. | 301.707 | 373. | 230. | 1319.012 | 36.318 | 250. | 279. | 320. | 358. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 39 | 0.5 | 0.456 | 0.7 | 0.2 | 0.009 | 0.097 | 0.3 | 0.4 | 0.5 | 0.6 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 38 | 9.5 | 9.789 | 16. | 8.1 | 1.864 | 1.365 | 8.58 | 9. | 10. | 11. |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 14 | 133.5 | 131. | 179. | 70. | 1083.077 | 32.91 | 80. | 100. | 160. | 173.5 |
| 01046 | IRON, DISSOLVED (UG/L AS Fe) | 24 | 10. | 18.625 | 109. | 0. | 579.027 | 24.063 | 5. | 5. | 20. | 55. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 22 ## | 5. | 11.5 | 60. | 0. | 236.167 | 15.368 | 0. | 5. | 10.75 | 40. |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 34 | 627.5 | 626.294 | 755. | 502. | 3708.638 | 60.899 | 538.5 | 582.75 | 661.5 | 716. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 39 | 7419.99 | 7438.977 | 17600. | 2520. | 14091027.71 | 3753.802 | 2850. | 4160. | 10300. | 12700. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 39 | 0.87 | 0.878 | 1.1 | 0.68 | 0.01 | 0.099 | 0.74 | 0.8 | 0.94 | 1.03 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

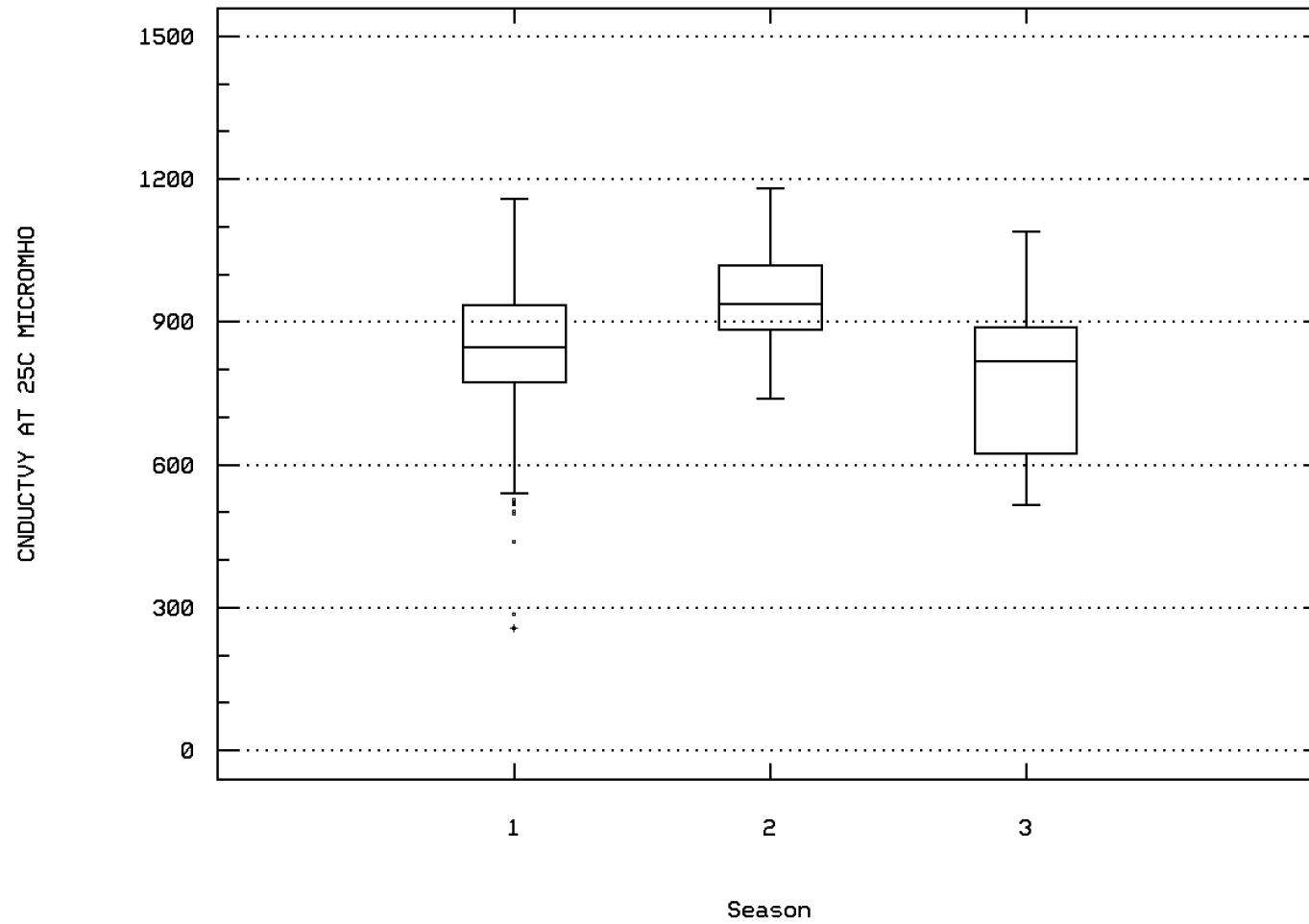
Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0180

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|--------------------------------------------------|-------|---------|----------|---------|---------|--------------|-----------|-------|-------|--------|--------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 39 | 13. | 12.59 | 20. | 6. | 18.117 | 4.256 | 7. | 8. | 16.5 | 18.5 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 17 | 24. | 25.529 | 33.5 | 20. | 17.171 | 4.144 | 20.8 | 22.5 | 28.25 | 33.1 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 27 | 4190. | 5737.778 | 20240. | 1690. | 20917828.795 | 4573.601 | 2574. | 3080. | 6601. | 12298. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 33 | 3070. | 4565.455 | 12100. | 1500. | 9311525.568 | 3051.479 | 1656. | 2110. | 6205. | 9712. |
| 00095p | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 53 | 817. | 783.585 | 1090. | 516. | 23341.671 | 152.78 | 589. | 620. | 893. | 980. |
| 00400 | PH (STANDARD UNITS) | 23 | 7.9 | 7.848 | 8.4 | 7. | 0.11 | 0.331 | 7.3 | 7.7 | 8.1 | 8.2 |
| 00400 | CONVERTED PH (STANDARD UNITS) | 23 | 7.9 | 7.701 | 8.4 | 7. | 0.133 | 0.364 | 7.3 | 7.7 | 8.1 | 8.2 |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 23 | 0.013 | 0.02 | 0.1 | 0.004 | 0. | 0.022 | 0.006 | 0.008 | 0.02 | 0.05 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 4 | 3.05 | 3.125 | 4.2 | 2.2 | 0.689 | 0.83 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 32 | 152.5 | 149.531 | 184. | 107. | 564.58 | 23.761 | 114.4 | 127.5 | 169.75 | 180. |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 28 | 180.5 | 178.571 | 220. | 130. | 802.921 | 28.336 | 139.7 | 153.5 | 204.5 | 219.1 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 18 | 0. | 0.056 | 1. | 0. | 0.056 | 0.236 | 0. | 0. | 0. | 0.1 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 22 | 0.3 | 0.313 | 0.7 | 0. | 0.034 | 0.184 | 0.093 | 0.2 | 0.425 | 0.6 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 18 | 0.03 | 0.032 | 0.09 | 0. | 0.001 | 0.033 | 0. | 0. | 0.06 | 0.09 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 20 | 0.01 | 0.018 | 0.06 | 0. | 0. | 0.014 | 0.005 | 0.01 | 0.02 | 0.039 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 14 | 0.01 | 0.013 | 0.03 | 0. | 0. | 0.011 | 0. | 0.004 | 0.02 | 0.03 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 33 | 270. | 256.606 | 370. | 170. | 2735.059 | 52.298 | 184. | 207. | 300. | 316. |
| 00902 | HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 31 | 110. | 105.065 | 210. | 53. | 1158.196 | 34.032 | 64.4 | 74. | 126. | 140. |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 32 | 69. | 66.094 | 92. | 45. | 162.023 | 12.729 | 49.3 | 53.75 | 76.75 | 81.8 |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 32 | 23. | 21.906 | 33. | 13. | 26.604 | 5.158 | 15. | 17. | 26. | 27.7 |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 32 | 70.5 | 68.313 | 95. | 40. | 227.964 | 15.098 | 48. | 56. | 80. | 88.7 |
| 00931 | SODIUM ADSORPTION RATIO | 32 | 1.85 | 1.863 | 2.3 | 1.4 | 0.071 | 0.266 | 1.5 | 1.625 | 2.1 | 2.2 |
| 00932 | SODIUM, PERCENT | 32 | 36. | 36.188 | 41. | 32. | 5.383 | 2.32 | 33. | 34.25 | 37.75 | 39.7 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 32 | 3.55 | 3.475 | 4.5 | 2. | 0.405 | 0.637 | 2.53 | 2.95 | 3.975 | 4.27 |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 32 | 9.5 | 8.969 | 13. | 3. | 7.064 | 2.658 | 6. | 7. | 11. | 12. |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 33 | 240. | 237.242 | 400. | 140. | 3224.002 | 56.78 | 164. | 190. | 280. | 298. |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 32 | 0.4 | 0.413 | 0.8 | 0.1 | 0.022 | 0.15 | 0.3 | 0.3 | 0.5 | 0.64 |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 32 | 9.2 | 9.084 | 11. | 6. | 1.381 | 1.175 | 7.42 | 8.425 | 9.875 | 10.7 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 8 | 98.5 | 93.25 | 111. | 60. | 333.643 | 18.266 | ** | ** | ** | ** |
| 01046 | IRON, DISSOLVED (UG/L AS Fe) | 20 | 10. | 26.25 | 140. | 5. | 1239.145 | 35.201 | 5. | 6.25 | 27.5 | 96. |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 20 ## | 5. | 6.95 | 40. | 0. | 100.682 | 10.034 | 0. | 1. | 5. | 27.8 |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 29 | 530. | 509.897 | 735. | 322. | 11029.596 | 105.022 | 365. | 417.5 | 586. | 634. |
| 70302 | SOLIDS, DISSOLVED-TONS PER DAY | 33 | 5799.99 | 7750.612 | 33120.1 | 2510. | 44953947.771 | 6704.771 | 2602. | 4190. | 7845. | 16820. |
| 70303 | SOLIDS, DISSOLVED-TONS PER ACRE-FT | 33 | 0.72 | 0.7 | 1. | 0.44 | 0.021 | 0.144 | 0.5 | 0.57 | 0.815 | 0.87 |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: BICA0180 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN RIVER NEAR ST. XAVIER, MT.

Station Inventory for Station: BICA0181

NPS Station ID: BICA0181
 Location: BIGHORN RIVER NEAR ST. XAVIER
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015058300.00
 Description:
 CROW 208 WQ PROGRAM

LAT/LON: 45.317226/-107.915282

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.54

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2266BI01
 Within Park Boundary: Yes

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0181

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------------------|-------------------|------|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/11/77-06/07/77 | 3 | 4. | 4.333 | 6. | 3. | 2.333 | 1.528 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 07/01/76-07/06/77 | 6 | 3010. | 3198.333 | 5640. | 1380. | 3730496.667 | 1931.449 | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 07/01/76-07/06/77 | 5 | 890. | 838. | 1020. | 540. | 34120. | 184.716 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 07/01/76-07/06/77 | 5 | 11.7 | 11.62 | 13.7 | 8.9 | 3.097 | 1.76 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/01/76-07/06/77 | 5 | 7.8 | 7.83 | 8.2 | 7.5 | 0.062 | 0.249 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/01/76-07/06/77 | 5 | 7.8 | 7.776 | 8.2 | 7.5 | 0.066 | 0.256 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/01/76-07/06/77 | 5 | 0.016 | 0.017 | 0.032 | 0.006 | 0. | 0.009 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 07/01/76-07/01/76 | 1 | 152. | 152. | 152. | 152. | 0. | 0. | ** | ** | ** | ** |
| 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/09/76-07/06/77 | 5 | 8. | 13. | 34. | 4. | 146. | 12.083 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/01/76-07/01/76 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/01/76-07/01/76 | 1 | 0.4 | 0.4 | 0.4 | 0.4 | 0. | 0. | ** | ** | ** | ** |
| 00625 NITROGEN, Kjeldahl, Total, (MG/L AS N) | 07/01/76-07/01/76 | 1 | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 07/01/76-07/01/76 | 1 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 31501 COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 35C | 10/24/76-10/24/76 | 1 | 116. | 116. | 116. | 116. | 0. | 0. | ** | ** | ** | ** |
| 31501 LOG COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 3 | 10/24/76-10/24/76 | 1 | 2.064 | 2.064 | 2.064 | 2.064 | 0. | 0. | ** | ** | ** | ** |
| 31501 GM COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 3 | 10/24/76-10/24/76 | | | 116. | | | | | | | | |
| 31505 COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506) | 10/24/76-10/24/76 | 1 | 180. | 180. | 180. | 180. | 0. | 0. | ** | ** | ** | ** |
| 31505 LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506) | 10/24/76-10/24/76 | 1 | 2.255 | 2.255 | 2.255 | 2.255 | 0. | 0. | ** | ** | ** | ** |
| 31505 GM COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506) | 10/24/76-10/24/76 | | | 180. | | | | | | | | |
| 31616 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C | 10/24/76-10/24/76 | 1 | 56. | 56. | 56. | 56. | 0. | 0. | ** | ** | ** | ** |
| 31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C | 10/24/76-10/24/76 | 1 | 1.748 | 1.748 | 1.748 | 1.748 | 0. | 0. | ** | ** | ** | ** |
| 31616 GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C | 10/24/76-10/24/76 | | | 56. | | | | | | | | |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 07/01/76-07/01/76 | 1 ## | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0181

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-------------------------|---------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 5 | 0 | 0.00 | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0181

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------------|----------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | | | | | | 1 | 0 | 0.00 | | | |
| 31501 | COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. | Other-Hi Lim. | 1000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 31505 | COLIFORM, TOTAL, MPN, CONF. TEST, 35C | Other-Hi Lim. | 1000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 31616 | FECAL COLIFORM, MEMBRANE FILTER, BROTH | Other-Hi Lim. | 200. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0182

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0182 Location: BIGHORN RIVER NEAR FORT SMITH RUINS Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080014004800.00 Description: THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE BIGHORN RIVER AT U.S. GEOLOGICAL SURVEY GAGING STATION 06287000 LOCATED APPROXIMATELY 0.4 MILES DOWNSTREAM FROM THE YELLOWTAIL AFTERBAY DAM. SAMPLES FOR THIS SITE WERE COLLECTED IN 1967 AND 1968 BY THE U.S. GEOLOGICAL SURVEY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.317642/-107.912921 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_USGS_BIGRI/06287000 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 02/07/98 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0182

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|-----|--------|---------|---------|---------|----------|-----------|------|------|------|------|
| 00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 03/06/68-09/02/68 | 3 | 52. | 50.333 | 59. | 40. | 92.333 | 9.609 | ** | ** | ** | ** |
| 00080 COLOR (PLATINUM-COBALT UNITS) | 03/06/68-09/02/68 | 3 | 5. | 4.667 | 5. | 4. | 0.333 | 0.577 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 03/06/68-09/02/68 | 3 | 855. | 812. | 921. | 660. | 18417. | 135.709 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 03/06/68-09/02/68 | 3 | 8.1 | 7.933 | 8.1 | 7.6 | 0.083 | 0.289 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 03/06/68-09/02/68 | 3 | 8.1 | 7.864 | 8.1 | 7.6 | 0.09 | 0.301 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 03/06/68-09/02/68 | 3 | 0.008 | 0.014 | 0.025 | 0.008 | 0. | 0.01 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/06/68-09/02/68 | 3 | 171. | 156.667 | 173. | 126. | 706.333 | 26.577 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 03/06/68-09/02/68 | 3 | 209. | 191.333 | 212. | 153. | 1104.333 | 33.232 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 03/06/68-09/02/68 | 3 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 03/06/68-09/02/68 | 3 | 283. | 268. | 311. | 210. | 2719. | 52.144 | ** | ** | ** | ** |
| 00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3) | 03/06/68-09/02/68 | 3 | 111. | 110.667 | 137. | 84. | 702.333 | 26.502 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 03/06/68-09/02/68 | 3 | 72. | 69. | 80. | 55. | 163. | 12.767 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/06/68-09/02/68 | 3 | 25. | 23.333 | 27. | 18. | 22.333 | 4.726 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 03/06/68-09/02/68 | 3 | 80. | 75.333 | 88. | 58. | 241.333 | 15.535 | ** | ** | ** | ** |
| 00931 SODIUM ADSORPTION RATIO | 03/06/68-09/02/68 | 3 | 2.1 | 2. | 2.2 | 1.7 | 0.07 | 0.265 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 03/06/68-09/02/68 | 3 | 3.5 | 3.533 | 3.9 | 3.2 | 0.123 | 0.351 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 03/06/68-09/02/68 | 3 | 11. | 9.667 | 11. | 7. | 5.333 | 2.309 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 03/06/68-09/02/68 | 3 | 268. | 252.333 | 291. | 198. | 2346.333 | 48.439 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 03/06/68-09/02/68 | 3 | 0.4 | 0.533 | 0.8 | 0.4 | 0.053 | 0.231 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 03/06/68-09/02/68 | 3 | 10. | 10.233 | 11. | 9.7 | 0.463 | 0.681 | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 03/06/68-09/02/68 | 3 | 0.09 | 0.083 | 0.1 | 0.06 | 0. | 0.021 | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 03/06/68-09/02/68 | 3 | 603. | 564.667 | 634. | 457. | 8934.333 | 94.522 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0182

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|----------------------------------------------------|-------------------|-----|--------|---------|---------|---------|-----------|-----------|------|------|------|------|
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 03/06/68-09/02/68 | 3 | 576. | 539.667 | 617. | 426. | 10110.333 | 100.55 | ** | ** | ** | ** |
| 71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 03/06/68-09/02/68 | 3 | 1.1 | 0.967 | 1.1 | 0.7 | 0.053 | 0.231 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0182

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|--------------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| | Other-Lo Lim. | 6.5 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| | Drinking Water | 250. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 3 | 2 | 0.67 | 2 | 1 | 0.50 | 1 | 1 | 1.00 | | | | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |
| 71851 NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0183

NPS Station ID: BICA0183
 Location: M38087
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.318115/-108.091892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_004/1037455
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0183

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 690. | 690. | 690. | 690. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 1.2 | 1.2 | 1.2 | 1.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 ## | 27.5 | 27.5 | 27.5 | 27.5 | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 64. | 64. | 64. | 64. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 1467. | 1467. | 1467. | 1467. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 ## | 100. | 100. | 100. | 100. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 31. | 31. | 31. | 31. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.72 | 0.72 | 0.72 | 0.72 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0183

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 0 & | 0 | 0.00 | | | | | | | | | | | |
| | | Drinking Water | 15. | 0 & | 0 | 0.00 | | | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0184

NPS Station ID: BICA0184
 Location: BIGHORN RIVER NR FORT SMITH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin:
 Minor Basin:
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.319726/-107.909727

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 112WRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 451911107543501
 Within Park Boundary: Yes

Date Created: 04/26/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0184

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/11/97-02/11/97 | 1 | 2.7 | 2.7 | 2.7 | 2.7 | 0. | 0. | ** | ** | ** | ** |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 02/11/97-02/11/97 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 02/11/97-02/11/97 | 1 | 4050. | 4050. | 4050. | 4050. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 02/11/97-02/11/97 | 1 | 777. | 777. | 777. | 777. | 0. | 0. | ** | ** | ** | ** |
| 70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 02/11/97-02/11/97 | 1 | 58. | 58. | 58. | 58. | 0. | 0. | ** | ** | ** | ** |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 02/11/97-02/11/97 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0185

NPS Station ID: BICA0185
 Location: 129616
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.327809/-107.765809

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_096 /7020649
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0185

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 10800. | 10800. | 10800. | 10800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 1.6 | 1.6 | 1.6 | 1.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 511. | 511. | 511. | 511. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 35. | 35. | 35. | 35. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 166. | 166. | 166. | 166. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 1029. | 1029. | 1029. | 1029. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 4092. | 4092. | 4092. | 4092. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0185

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 74. | 74. | 74. | 74. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 186. | 186. | 186. | 186. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 239. | 239. | 239. | 239. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 8600. | 8600. | 8600. | 8600. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 71.9 | 71.9 | 71.9 | 71.9 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0185

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0186

NPS Station ID: BICA0186
 Location: SOAP CREEK NEAR ST. XAVIER
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080010000100.00
 Description:
 CROW 208 WQ PROGRAM

LAT/LON: 45.329448/-107.770005

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2267SO01
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0186

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|---------|---------|---------|------------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 07/01/76-07/06/77 | 6 | 19. | 17.333 | 32. | 5. | 94.667 | 9.73 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 07/01/76-07/06/77 | 7 | 28. | 31.429 | 58. | 18. | 165.952 | 12.882 | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 07/01/76-07/06/77 | 7 | 850. | 861.429 | 1010. | 690. | 12480.952 | 111.718 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/11/77-07/06/77 | 4 | 931. | 928.75 | 1010. | 843. | 7647.583 | 87.45 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 07/01/76-07/06/77 | 6 | 9.2 | 9.65 | 12. | 7.9 | 2.975 | 1.725 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 07/01/76-07/06/77 | 7 | 8. | 8.029 | 8.4 | 7.8 | 0.039 | 0.198 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 07/01/76-07/06/77 | 7 | 8. | 7.994 | 8.4 | 7.8 | 0.04 | 0.201 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 07/01/76-07/06/77 | 7 | 0.01 | 0.01 | 0.016 | 0.004 | 0. | 0.004 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 01/11/77-07/06/77 | 4 | 8.1 | 8.1 | 8.2 | 8. | 0.007 | 0.082 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 01/11/77-07/06/77 | 4 | 8.1 | 8.094 | 8.2 | 8. | 0.007 | 0.082 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/11/77-07/06/77 | 4 | 0.008 | 0.008 | 0.01 | 0.006 | 0. | 0.002 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 07/01/76-07/06/77 | 7 | 195. | 198.571 | 240. | 165. | 789.286 | 28.094 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 01/11/77-07/06/77 | 4 | 259.5 | 254.75 | 293. | 207. | 1570.917 | 39.635 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 01/11/77-07/06/77 | 4 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/09/76-07/06/77 | 5 | 69. | 87.4 | 193. | 27. | 3906.3 | 62.5 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 7 ## | 0.05 | 0.109 | 0.5 | 0.005 | 0.031 | 0.176 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 07/01/76-07/06/77 | 7 | 0.05 | 0.113 | 0.46 | 0.025 | 0.024 | 0.156 | ** | ** | ** | ** |
| 00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 07/01/76-07/06/77 | 7 | 0.38 | 0.39 | 0.8 | 0.08 | 0.058 | 0.24 | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 07/01/76-07/06/77 | 7 | 0.02 | 0.026 | 0.05 | 0.005 | 0. | 0.018 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 01/11/77-07/06/77 | 4 | 441. | 471.5 | 573. | 431. | 4601. | 67.831 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 01/11/77-07/06/77 | 4 | 118. | 126.25 | 162. | 107. | 594.917 | 24.391 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/11/77-07/06/77 | 4 | 38.2 | 37.925 | 42.2 | 33.1 | 18.763 | 4.332 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 01/11/77-07/06/77 | 4 | 20.5 | 29. | 60. | 15. | 435.333 | 20.865 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 01/11/77-07/06/77 | 4 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 01/11/77-07/06/77 | 4 | 4. | 3.75 | 5. | 2. | 2.25 | 1.5 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 01/11/77-07/06/77 | 4 | 319.5 | 321.5 | 370. | 277. | 1915. | 43.761 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 01/11/77-07/06/77 | 4 | 0.52 | 0.523 | 0.56 | 0.49 | 0.001 | 0.033 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 01/11/77-07/06/77 | 4 | 12. | 12. | 14. | 10. | 3.333 | 1.826 | ** | ** | ** | ** |
| 01002 ARSENIC, TOTAL (UG/L AS AS) | 01/11/77-07/06/77 | 4 ## | 1. | 1.125 | 2. | 0.5 | 0.396 | 0.629 | ** | ** | ** | ** |
| 01012 BERYLLIUM, TOTAL (UG/L AS BE) | 01/11/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01022 BORON, TOTAL (UG/L AS B) | 01/11/77-07/06/77 | 4 | 113. | 161.5 | 330. | 90. | 12929. | 113.706 | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS Cd) | 01/11/77-07/06/77 | 4 ## | 0.5 | 0.625 | 1. | 0.5 | 0.063 | 0.25 | ** | ** | ** | ** |
| 01034 CHROMIUM, TOTAL (UG/L AS CR) | 01/11/77-07/06/77 | 4 | 16.5 | 15.75 | 25. | 5. | 95.583 | 9.777 | ** | ** | ** | ** |
| 01037 COBALT, TOTAL (UG/L AS CO) | 01/11/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS CU) | 01/11/77-07/06/77 | 4 ## | 5. | 8.75 | 20. | 5. | 56.25 | 7.5 | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/11/77-07/06/77 | 4 | 875. | 1159.75 | 2099. | 790. | 394506.917 | 628.098 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0186

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|--------|---------|---------|-------------|-----------|------|------|------|------|
| 01051 LEAD, TOTAL (UG/L AS PB) | 01/11/77-07/06/77 | 4 ## | 5. | 6.25 | 10. | 5. | 6.25 | 2.5 | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/11/77-07/06/77 | 4 | 50. | 57.5 | 90. | 40. | 491.667 | 22.174 | ** | ** | ** | ** |
| 01062 MOLYBDENUM, TOTAL (UG/L AS MO) | 01/11/77-07/06/77 | 4 ## | 5. | 9.5 | 23. | 5. | 81. | 9. | ** | ** | ** | ** |
| 01067 NICKEL, TOTAL (UG/L AS NI) | 01/11/77-07/06/77 | 4 ## | 8.5 | 8.75 | 13. | 5. | 18.917 | 4.349 | ** | ** | ** | ** |
| 01082 STRONTIUM, TOTAL (UG/L AS SR) | 01/11/77-07/06/77 | 4 | 2439.5 | 3289.5 | 6779. | 1500. | 5610413.667 | 2368.631 | ** | ** | ** | ** |
| 01087 VANADIUM, TOTAL (UG/L AS V) | 01/11/77-07/06/77 | 4 ## | 5. | 4.75 | 8.5 | 0.5 | 10.75 | 3.279 | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 01/11/77-07/06/77 | 4 | 23.5 | 22.5 | 38. | 5. | 304.333 | 17.445 | ** | ** | ** | ** |
| 01105 ALUMINUM, TOTAL (UG/L AS AL) | 01/11/77-07/06/77 | 4 | 1409.5 | 2534.5 | 6489. | 830. | 7153653.667 | 2674.632 | ** | ** | ** | ** |
| 01132 LITHIUM, TOTAL (UG/L AS LI) | 01/11/77-07/06/77 | 4 | 40.5 | 42. | 67. | 20. | 651.333 | 25.521 | ** | ** | ** | ** |
| 01147 SELENIUM, TOTAL (UG/L AS SE) | 01/11/77-07/06/77 | 4 ## | 1. | 0.875 | 1. | 0.5 | 0.063 | 0.25 | ** | ** | ** | ** |
| 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 01/11/77-07/06/77 | 4 | 653.5 | 676.25 | 802. | 596. | 9600.25 | 97.981 | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 01/11/77-07/06/77 | 4 | 783. | 789.25 | 905. | 686. | 11998.25 | 109.537 | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 07/01/76-07/06/77 | 7 ## | 0.005 | 0.012 | 0.05 | 0.005 | 0. | 0.017 | ** | ** | ** | ** |
| 71900 MERCURY, TOTAL (UG/L AS HG) | 01/11/77-07/06/77 | 4 ## | 0.325 | 0.338 | 0.6 | 0.1 | 0.076 | 0.275 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0186

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00300 OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00400 PH | Fresh Chronic | 9. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00403 PH, LAB | Fresh Chronic | 9. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Other-Lo Lim. | 6.5 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 250. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 00945 SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 4 | 4 | 1.00 | 1 | 1 | 1.00 | 2 | 2 | 1.00 | 1 | 1 | 1.00 | | | |
| 00950 FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01002 ARSENIC, TOTAL | Fresh Acute | 360. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01012 BERYLLIUM, TOTAL | Fresh Acute | 130. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 4. | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| 01027 CADMIUM, TOTAL | Fresh Acute | 3.9 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 5. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01034 CHROMIUM, TOTAL | Drinking Water | 100. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01042 COPPER, TOTAL | Fresh Acute | 18. | 4 | 1 | 0.25 | 1 | 1 | 1.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 1300. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01051 LEAD, TOTAL | Fresh Acute | 82. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 15. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01067 NICKEL, TOTAL | Fresh Acute | 1400. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 100. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01092 ZINC, TOTAL | Fresh Acute | 120. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 5000. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 01147 SELENIUM, TOTAL | Fresh Acute | 20. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| 71900 MERCURY, TOTAL | Fresh Acute | 2.4 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0187

NPS Station ID: BICA0187
 Location: 129657
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.331392/-107.958892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_001 /7020709
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0187

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 1 | 1206. | 1206. | 1206. | 1206. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/29/78-10/29/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 1 | 57.2 | 57.2 | 57.2 | 57.2 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 1 | 68.3 | 68.3 | 68.3 | 68.3 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 1 | 3.2 | 3.2 | 3.2 | 3.2 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 1 | 38. | 38. | 38. | 38. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 1 | 248. | 248. | 248. | 248. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 1 | 40. | 40. | 40. | 40. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0187

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 1 | 2856. | 2856. | 2856. | 2856. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 1 | 58. | 58. | 58. | 58. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 1 | 52. | 52. | 52. | 52. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 1 | 51. | 51. | 51. | 51. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 1 | 5800. | 5800. | 5800. | 5800. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 1 | 3.86 | 3.86 | 3.86 | 3.86 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0187

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0188

NPS Station ID: BICA0188
 Location: 129658
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.335615/-107.993615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_060 /7020711
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0188

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/29/78-10/29/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/29/78-10/29/78 | 1 | 1100. | 1100. | 1100. | 1100. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/29/78-10/29/78 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/29/78-10/29/78 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/29/78-10/29/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/29/78-10/29/78 | 1 | 93.1 | 93.1 | 93.1 | 93.1 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 10/29/78-10/29/78 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/29/78-10/29/78 | 1 | 4.4 | 4.4 | 4.4 | 4.4 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/29/78-10/29/78 | 1 | 140. | 140. | 140. | 140. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/29/78-10/29/78 | 1 | 177. | 177. | 177. | 177. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/29/78-10/29/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/29/78-10/29/78 | 1 | 150. | 150. | 150. | 150. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/29/78-10/29/78 | 1 | 27. | 27. | 27. | 27. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/29/78-10/29/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0188

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/29/78-10/29/78 | 1 | 4835. | 4835. | 4835. | 4835. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/29/78-10/29/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/29/78-10/29/78 | 1 | 77. | 77. | 77. | 77. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/29/78-10/29/78 | 1 | 111. | 111. | 111. | 111. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/29/78-10/29/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/29/78-10/29/78 | 1 | 31. | 31. | 31. | 31. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/29/78-10/29/78 | 1 | 12900. | 12900. | 12900. | 12900. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/29/78-10/29/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/29/78-10/29/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/29/78-10/29/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/29/78-10/29/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/29/78-10/29/78 | 1 | 8.86 | 8.86 | 8.86 | 8.86 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/29/78-10/29/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/29/78-10/29/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0188

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0189

NPS Station ID: BICA0189
 Location: M38086
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.337503/-108.043616

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_063 /1037454
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0189

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 500. | 500. | 500. | 500. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 77.8 | 77.8 | 77.8 | 77.8 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 29.8 | 29.8 | 29.8 | 29.8 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 103. | 103. | 103. | 103. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 42. | 42. | 42. | 42. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 251. | 251. | 251. | 251. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 704. | 704. | 704. | 704. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 60. | 60. | 60. | 60. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.14 | 0.14 | 0.14 | 0.14 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0189

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0190

NPS Station ID: BICA0190
 Location: BIGHORN RIVER 2.6 MI BL AFTERBAY DAM NR FORT SMI
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin:
 Minor Basin:
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.338059/-107.897781

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 112WRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 452017107535201
 Within Park Boundary: Yes

Date Created: 04/26/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0190

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 1 | 2.8 | 2.8 | 2.8 | 2.8 | 0. | 0. | ** | ** | ** | ** |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 02/10/97-02/10/97 | 1 | 4300. | 4300. | 4300. | 4300. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 02/10/97-02/10/97 | 1 | 763. | 763. | 763. | 763. | 0. | 0. | ** | ** | ** | ** |
| 70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 02/10/97-02/10/97 | 1 | 59. | 59. | 59. | 59. | 0. | 0. | ** | ** | ** | ** |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 02/10/97-02/10/97 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0191

NPS Station ID: BICA0191
 Location: M38083
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.338615/-108.098310

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_002 /1037451
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0191

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 400. | 400. | 400. | 400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 8.4 | 8.4 | 8.4 | 8.4 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 31.1 | 31.1 | 31.1 | 31.1 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 243. | 243. | 243. | 243. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 285. | 285. | 285. | 285. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 611. | 611. | 611. | 611. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 46. | 46. | 46. | 46. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 135. | 135. | 135. | 135. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.26 | 0.26 | 0.26 | 0.26 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0191

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0192

NPS Station ID: BICA0192
 Location: M38085
 Station Type: /TYP/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.339698/-108.050309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_064 /1037453
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0192

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 400. | 400. | 400. | 400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.079 | 0.079 | 0.079 | 0.079 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 73.7 | 73.7 | 73.7 | 73.7 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 28.6 | 28.6 | 28.6 | 28.6 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 306. | 306. | 306. | 306. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 36. | 36. | 36. | 36. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 251. | 251. | 251. | 251. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 696. | 696. | 696. | 696. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 43. | 43. | 43. | 43. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 | 45. | 45. | 45. | 45. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 | 166. | 166. | 166. | 166. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 0.16 | 0.16 | 0.16 | 0.16 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0192

| Parameter | Std. Type | Std. Value | Total | | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|--|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0193

NPS Station ID: BICA0193
 Location: 129627
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.340005/-107.823892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_095 /7020669
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0193

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 17.5 | 17.5 | 17.5 | 17.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 2400. | 2400. | 2400. | 2400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 | 0.74 | 0.74 | 0.74 | 0.74 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 69.5 | 69.5 | 69.5 | 69.5 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 9.6 | 9.6 | 9.6 | 9.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 503. | 503. | 503. | 503. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 | 96. | 96. | 96. | 96. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 | 23. | 23. | 23. | 23. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0193

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 1204. | 1204. | 1204. | 1204. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 | 136. | 136. | 136. | 136. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 192. | 192. | 192. | 192. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 5900. | 5900. | 5900. | 5900. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 | 73.72 | 73.72 | 73.72 | 73.72 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0193

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0194

NPS Station ID: BICA0194
 Location: 129628
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.341115/-107.810615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_009 /7020671
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0194

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 10/15/78-10/15/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 10/15/78-10/15/78 | 1 | 1800. | 1800. | 1800. | 1800. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 10/15/78-10/15/78 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 10/15/78-10/15/78 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 10/15/78-10/15/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 10/15/78-10/15/78 | 1 | 0.9 | 0.9 | 0.9 | 0.9 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 10/15/78-10/15/78 | 1 | 0.8 | 0.8 | 0.8 | 0.8 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 10/15/78-10/15/78 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 10/15/78-10/15/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 10/15/78-10/15/78 | 1 | 764. | 764. | 764. | 764. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 10/15/78-10/15/78 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0194

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 10/15/78-10/15/78 | 1 | 42. | 42. | 42. | 42. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 10/15/78-10/15/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 10/15/78-10/15/78 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 10/15/78-10/15/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 10/15/78-10/15/78 | 1 | 79. | 79. | 79. | 79. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 10/15/78-10/15/78 | 1 | 3800. | 3800. | 3800. | 3800. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 10/15/78-10/15/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 10/15/78-10/15/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 10/15/78-10/15/78 | 1 ## | 0.25 | 0.25 | 0.25 | 0.25 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 10/15/78-10/15/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 10/15/78-10/15/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0194

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0195

NPS Station ID: BICA0195
 Location: BIGHORN RIVER 3.3 MI BL AFTERBAY DAM NR FORT SMI
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC:
 Major Basin:
 Minor Basin:
 RF1 Index:
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.342227/-107.909727

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 112WRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 452032107543501
 Within Park Boundary: No

Date Created: 04/26/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0195

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|---------------------------------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 1 | 2.7 | 2.7 | 2.7 | 2.7 | 0. | 0. | ** | ** | ** | ** |
| 00020 TEMPERATURE, AIR (DEGREES CENTIGRADE) | 02/10/97-02/10/97 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 02/10/97-02/10/97 | 1 | 4120. | 4120. | 4120. | 4120. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 02/10/97-02/10/97 | 1 | 762. | 762. | 762. | 762. | 0. | 0. | ** | ** | ** | ** |
| 70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM | 02/10/97-02/10/97 | 1 | 66. | 66. | 66. | 66. | 0. | 0. | ** | ** | ** | ** |
| 80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L) | 02/10/97-02/10/97 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: BICA0196

NPS Station ID: BICA0196
 Location: M38084
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.355809/-108.106116

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_062 /1037452
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0196

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 01/20/79-01/20/79 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/20/79-01/20/79 | 1 | 670. | 670. | 670. | 670. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 01/20/79-01/20/79 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/20/79-01/20/79 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 01/20/79-01/20/79 | 1 | 83.3 | 83.3 | 83.3 | 83.3 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/20/79-01/20/79 | 1 | 48.3 | 48.3 | 48.3 | 48.3 | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 01/20/79-01/20/79 | 1 | 106. | 106. | 106. | 106. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 01/20/79-01/20/79 | 1 | 53. | 53. | 53. | 53. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 01/20/79-01/20/79 | 1 | 43. | 43. | 43. | 43. | 0. | 0. | ** | ** | ** | ** |
| 01049 LEAD, DISSOLVED (UG/L AS PB) | 01/20/79-01/20/79 | 1 | 547. | 547. | 547. | 547. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 01/20/79-01/20/79 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 01/20/79-01/20/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 01/20/79-01/20/79 | 1 ## | 25. | 25. | 25. | 25. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 01/20/79-01/20/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 01/20/79-01/20/79 | 1 | 1.55 | 1.55 | 1.55 | 1.55 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0196

| Parameter | Std. Type | Std. Value | Total | | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-------|----------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | Standard | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 LEAD, DISSOLVED | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0197

NPS Station ID: BICA0197
 Location: 129672
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.360309/-107.883309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_091 /7020734
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0197

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 1150. | 1150. | 1150. | 1150. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/05/78-11/05/78 | 1 | 62.1 | 62.1 | 62.1 | 62.1 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 5.8 | 5.8 | 5.8 | 5.8 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 72. | 72. | 72. | 72. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 540. | 540. | 540. | 540. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 56. | 56. | 56. | 56. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0197

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 1136. | 1136. | 1136. | 1136. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 55. | 55. | 55. | 55. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 60. | 60. | 60. | 60. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 10400. | 10400. | 10400. | 10400. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 40.1 | 40.1 | 40.1 | 40.1 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0197

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0198

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0198 Location: 129671 Station Type: /TYPA/AMBNT/SPRING RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.365309/-107.914198 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_008 /7020732 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
| | | Date Created: 11/08/97 On/Off RF1: On/Off RF3: |

Parameter Inventory for Station: BICA0198

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 1000. | 1000. | 1000. | 1000. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS CA) | 11/05/78-11/05/78 | 1 | 66.1 | 66.1 | 66.1 | 66.1 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/05/78-11/05/78 | 1 | 47.5 | 47.5 | 47.5 | 47.5 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 11/05/78-11/05/78 | 1 | 89.7 | 89.7 | 89.7 | 89.7 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 6.8 | 6.8 | 6.8 | 6.8 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 69. | 69. | 69. | 69. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 434. | 434. | 434. | 434. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 128. | 128. | 128. | 128. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0198

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|-----------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|----|
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 | 23. | 23. | 23. | 23. | 0. | 0. | ** | ** | ** | ** |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 726. | 726. | 726. | 726. | 0. | 0. | ** | ** | ** | ** |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 132. | 132. | 132. | 132. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1 | 72. | 72. | 72. | 72. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 39. | 39. | 39. | 39. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 7500. | 7500. | 7500. | 7500. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 49.24 | 49.24 | 49.24 | 49.24 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1 | 28. | 28. | 28. | 28. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0198

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0199

NPS Station ID: BICA0199 LAT/LON: 45.372504/-107.788060
 Location: SOAP CREEK HIWAY BRIDGE 313 SOUTH OF ST X
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015 Depth of Water: 0
 Major Basin: MISSOURI RIVER Elevation: 0
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015 RF1 Mile Point: 0.000
 RF3 Index: 10080015003703.44 RF3 Mile Point: 6.85
 Description:

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2367SO01
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.09

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0199

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|------|--------|----------|---------|---------|-------------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12/20/73-04/20/83 | 9 | 10. | 10.9 | 21. | 0. | 73.965 | 8.6 | 0. | 1.5 | 20. | 21. |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 12/20/73-04/20/83 | 7 | 16. | 24.286 | 66. | 10. | 387.571 | 19.687 | ** | ** | ** | ** |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 04/20/83-04/20/83 | 1 | 40. | 40. | 40. | 40. | 0. | 0. | ** | ** | ** | ** |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 08/31/76-07/06/77 | 5 | 1010. | 1056. | 1340. | 850. | 34630. | 186.091 | ** | ** | ** | ** |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/20/73-04/20/83 | 8 | 1039.5 | 1067.125 | 1500. | 849. | 37558.982 | 193.801 | ** | ** | ** | ** |
| 00300 | OXYGEN, DISSOLVED MG/L | 01/12/77-07/06/77 | 4 | 11. | 11.45 | 14. | 9.8 | 4.17 | 2.042 | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 08/31/76-04/20/83 | 6 | 8.1 | 8.15 | 8.4 | 8. | 0.019 | 0.138 | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 08/31/76-04/20/83 | 6 | 8.1 | 8.134 | 8.4 | 8. | 0.019 | 0.139 | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 08/31/76-04/20/83 | 6 | 0.008 | 0.007 | 0.01 | 0.004 | 0. | 0.002 | ** | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 12/20/73-04/20/83 | 8 | 8.3 | 8.163 | 8.5 | 7.4 | 0.126 | 0.354 | ** | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 12/20/73-04/20/83 | 8 | 8.3 | 7.995 | 8.5 | 7.4 | 0.158 | 0.397 | ** | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/20/73-04/20/83 | 8 | 0.005 | 0.01 | 0.04 | 0.003 | 0. | 0.012 | ** | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 03/31/74-04/20/83 | 8 | 213.5 | 212.625 | 278. | 165. | 1599.982 | 40. | ** | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 03/31/74-07/06/77 | 6 | 271. | 266.833 | 339. | 207. | 2418.567 | 49.179 | ** | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 03/31/74-07/06/77 | 6 | 0. | 2.167 | 8. | 0. | 12.167 | 3.488 | ** | ** | ** | ** |
| 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 01/12/77-04/20/83 | 5 | 64. | 90.4 | 221. | 24. | 6019.3 | 77.584 | ** | ** | ** | ** |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 08/31/76-04/20/83 | 6 ## | 0.028 | 0.319 | 1.799 | 0.005 | 0.526 | 0.725 | ** | ** | ** | ** |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 03/31/74-07/06/77 | 7 | 0.04 | 0.081 | 0.2 | 0.02 | 0.007 | 0.082 | ** | ** | ** | ** |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 08/31/76-07/06/77 | 5 | 0.4 | 0.342 | 0.5 | 0.05 | 0.036 | 0.191 | ** | ** | ** | ** |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 04/20/83-04/20/83 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 08/31/76-04/20/83 | 6 | 0.06 | 0.051 | 0.1 | 0.005 | 0.001 | 0.037 | ** | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 03/31/74-04/20/83 | 7 | 445. | 456.143 | 586. | 391. | 3863.81 | 62.16 | ** | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 03/31/74-04/20/83 | 7 | 117. | 116.714 | 160. | 84. | 507.905 | 22.537 | ** | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 03/31/74-04/20/83 | 7 | 42.5 | 40.029 | 45.3 | 31.9 | 26.959 | 5.192 | ** | ** | ** | ** |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 03/31/74-04/20/83 | 7 | 56. | 57.199 | 80. | 37.39 | 308.546 | 17.565 | ** | ** | ** | ** |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 01/12/77-04/20/83 | 5 | 3. | 3.22 | 5. | 2.1 | 1.142 | 1.069 | ** | ** | ** | ** |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 03/31/74-04/20/83 | 7 | 6. | 6.571 | 13. | 2. | 14.952 | 3.867 | ** | ** | ** | ** |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 03/31/74-04/20/83 | 7 | 350. | 337.714 | 402. | 227. | 3325.571 | 57.668 | ** | ** | ** | ** |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 03/31/74-07/06/77 | 5 | 0.54 | 0.542 | 0.58 | 0.49 | 0.001 | 0.033 | ** | ** | ** | ** |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | 01/12/77-07/06/77 | 4 | 12.5 | 12. | 13. | 10. | 2. | 1.414 | ** | ** | ** | ** |
| 01002 | ARSENIC, TOTAL (UG/L AS AS) | 03/31/74-07/06/77 | 5 ## | 1. | 1.7 | 5. | 0.5 | 3.45 | 1.857 | ** | ** | ** | ** |
| 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 01/12/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01022 | BORON, TOTAL (UG/L AS B) | 01/12/77-07/06/77 | 4 | 202.5 | 308.75 | 740. | 90. | 86406.25 | 293.949 | ** | ** | ** | ** |
| 01027 | CADMIUM, TOTAL (UG/L AS CD) | 12/20/73-07/06/77 | 7 ## | 0.5 | 1.786 | 5. | 0.5 | 4.821 | 2.196 | ** | ** | ** | ** |
| 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 01/12/77-07/06/77 | 4 | 20.5 | 21. | 38. | 5. | 202. | 14.213 | ** | ** | ** | ** |
| 01037 | COBALT, TOTAL (UG/L AS CO) | 01/12/77-07/06/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 12/20/73-07/06/77 | 7 ## | 5. | 8. | 21. | 5. | 36.333 | 6.028 | ** | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS FE) | 12/20/73-04/20/83 | 4 | 1919.5 | 1979.75 | 3900. | 180. | 2535893.583 | 1592.449 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0199

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------------|-------------------|------|--------|---------|---------|---------|--------------|-----------|------|------|------|------|
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/12/77-07/06/77 | 4 | 595. | 1137.5 | 3000. | 360. | 1560025. | 1249.01 | ** | ** | ** | ** |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 12/20/73-07/06/77 | 5 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | 03/31/74-04/20/83 | 3 | 130. | 153.333 | 220. | 110. | 3433.333 | 58.595 | ** | ** | ** | ** |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/12/77-07/06/77 | 4 | 75. | 77.475 | 119.9 | 40. | 1488.836 | 38.585 | ** | ** | ** | ** |
| 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 01/12/77-07/06/77 | 4 ## | 5. | 12. | 33. | 5. | 196. | 14. | ** | ** | ** | ** |
| 01067 | NICKEL, TOTAL (UG/L AS NI) | 01/12/77-04/20/83 | 5 | 16. | 17.6 | 33. | 5. | 104.3 | 10.213 | ** | ** | ** | ** |
| 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 01/12/77-07/06/77 | 4 | 1650. | 2424.75 | 6099. | 300. | 6886716.917 | 2624.255 | ** | ** | ** | ** |
| 01087 | VANADIUM, TOTAL (UG/L AS V) | 01/12/77-07/06/77 | 4 ## | 5. | 9.75 | 24. | 5. | 90.25 | 9.5 | ** | ** | ** | ** |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 12/20/73-07/06/77 | 7 | 10. | 36.571 | 186. | 5. | 4380.619 | 66.186 | ** | ** | ** | ** |
| 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 01/12/77-07/06/77 | 4 | 2320. | 3562.25 | 9259. | 350. | 15585226.917 | 3947.813 | ** | ** | ** | ** |
| 01132 | LITHIUM, TOTAL (UG/L AS LI) | 01/12/77-07/06/77 | 4 | 84.5 | 102. | 200. | 39. | 4832.667 | 69.517 | ** | ** | ** | ** |
| 01147 | SELENIUM, TOTAL (UG/L AS SE) | 01/12/77-07/06/77 | 4 ## | 0.75 | 0.9 | 2. | 0.1 | 0.673 | 0.821 | ** | ** | ** | ** |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 01/12/77-07/06/77 | 4 | 769. | 786.5 | 880. | 728. | 4819.667 | 69.424 | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 03/31/74-07/06/77 | 6 | 838.5 | 847.667 | 1010. | 691. | 11337.867 | 106.479 | ** | ** | ** | ** |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 03/31/74-04/20/83 | 8 | 0.028 | 0.029 | 0.062 | 0.005 | 0.001 | 0.024 | ** | ** | ** | ** |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 03/31/74-07/06/77 | 6 ## | 0.5 | 0.45 | 0.8 | 0.1 | 0.087 | 0.295 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0199

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00400 | PH | Fresh Chronic | 9. | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00403 | PH, LAB | Fresh Chronic | 9. | 8 | 0 | 0.00 | 3 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 7 | 0 | 0.00 | 2 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 7 | 6 | 0.86 | 2 | 2 | 1.00 | 4 | 3 | 0.75 | 1 | 1 | 1.00 | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 5 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01002 | ARSENIC, TOTAL | Fresh Acute | 360. | 5 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 5 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01012 | BERYLLIUM, TOTAL | Fresh Acute | 130. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 4. | 0 & | 0 | 0.00 | | | | | | | | | | | |
| 01027 | CADMIUM, TOTAL | Fresh Acute | 3.9 | 5 & | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 5. | 5 & | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01034 | CHROMIUM, TOTAL | Drinking Water | 100. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01042 | COPPER, TOTAL | Fresh Acute | 18. | 7 | 1 | 0.14 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 1 | 1.00 | | |
| | | Drinking Water | 1300. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01051 | LEAD, TOTAL | Fresh Acute | 82. | 5 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 15. | 5 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01067 | NICKEL, TOTAL | Fresh Acute | 1400. | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 100. | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01092 | ZINC, TOTAL | Fresh Acute | 120. | 7 | 1 | 0.14 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 1 | 1.00 | | |
| | | Drinking Water | 5000. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01147 | SELENIUM, TOTAL | Fresh Acute | 20. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 71900 | MERCURY, TOTAL | Fresh Acute | 2.4 | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 2. | 6 | 0 | 0.00 | 2 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0200

NPS Station ID: BICA0200
 Location: M38056
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.378893/-108.048615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_066 /1037427
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE MOTT CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0200

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|------|--------|------|---------|---------|----------|-----------|------|------|------|------|
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/19/79-01/19/79 | 1 | 575. | 575. | 575. | 575. | 0. | 0. | ** | ** | ** | ** |
| 00400 | PH (STANDARD UNITS) | 01/19/79-01/19/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 | CONVERTED PH (STANDARD UNITS) | 01/19/79-01/19/79 | 1 | 7.7 | 7.7 | 7.7 | 7.7 | 0. | 0. | ** | ** | ** | ** |
| 00400 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/19/79-01/19/79 | 1 | 0.02 | 0.02 | 0.02 | 0.02 | 0. | 0. | ** | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | 01/19/79-01/19/79 | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/19/79-01/19/79 | 1 | 55.9 | 55.9 | 55.9 | 55.9 | 0. | 0. | ** | ** | ** | ** |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 01/19/79-01/19/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | 01/19/79-01/19/79 | 1 | 252. | 252. | 252. | 252. | 0. | 0. | ** | ** | ** | ** |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 01/19/79-01/19/79 | 1 | 17. | 17. | 17. | 17. | 0. | 0. | ** | ** | ** | ** |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/19/79-01/19/79 | 1 | 114. | 114. | 114. | 114. | 0. | 0. | ** | ** | ** | ** |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 01/19/79-01/19/79 | 1 | 801. | 801. | 801. | 801. | 0. | 0. | ** | ** | ** | ** |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/19/79-01/19/79 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | 01/19/79-01/19/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 01/19/79-01/19/79 | 1 ## | 12.5 | 12.5 | 12.5 | 12.5 | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 01/19/79-01/19/79 | 1 | 313. | 313. | 313. | 313. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 01/19/79-01/19/79 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 01/19/79-01/19/79 | 1 | 2.74 | 2.74 | 2.74 | 2.74 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0200

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 | PH | | | | | | | | | | | | | | | | |
| | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 | COPPER, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01049 | LEAD, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 82. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 | ZINC, DISSOLVED | | | | | | | | | | | | | | | | |
| | Fresh Acute | 120. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | | | | | | | | | | | | | | | | |
| | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0201

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPS Station ID: BICA0201 Location: 129670 Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 10080015 Major Basin: MISSOURI RIVER Minor Basin: YELLOWSTONE RIVER RF1 Index: 10080015 RF3 Index: 10080014004800.00 Description: THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516. | LAT/LON: 45.379392/-107.922505 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 0.75 | Agency: 11NPSWRD FIPS State/County: 30003 MONTANA/BIG HORN STORET Station ID(s): BICA_NURE_068 /7020730 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.10 Distance from RF3: 0.35 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date Created: 11/08/97

 On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0201

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 1200. | 1200. | 1200. | 1200. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 | 0.118 | 0.118 | 0.118 | 0.118 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/05/78-11/05/78 | 1 | 66.9 | 66.9 | 66.9 | 66.9 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 11/05/78-11/05/78 | 1 | 46.4 | 46.4 | 46.4 | 46.4 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 1.6 | 1.6 | 1.6 | 1.6 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 103. | 103. | 103. | 103. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 194. | 194. | 194. | 194. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 41. | 41. | 41. | 41. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 484. | 484. | 484. | 484. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0201

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 647. | 647. | 647. | 647. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 20. | 20. | 20. | 20. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 32. | 32. | 32. | 32. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 10400. | 10400. | 10400. | 10400. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 8.7 | 8.7 | 8.7 | 8.7 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0201

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | Obs | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0202

NPS Station ID: BICA0202
 Location: 129660
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.399198/-107.821393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_010 /7020715
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE LEMONADE SPRINGS MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0202

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 3400. | 3400. | 3400. | 3400. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 12.1 | 12.1 | 12.1 | 12.1 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 58. | 58. | 58. | 58. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 506. | 506. | 506. | 506. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 139. | 139. | 139. | 139. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 53. | 53. | 53. | 53. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 3002. | 3002. | 3002. | 3002. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0202

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|--------|---------|---------|----------|-----------|------|------|------|------|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 52. | 52. | 52. | 52. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 61. | 61. | 61. | 61. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 14100. | 14100. | 14100. | 14100. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 10.42 | 10.42 | 10.42 | 10.42 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0202

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Fresh Acute | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0203

NPS Station ID: BICA0203
 Location: 129669
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.417504/-107.904699

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_090 /7020728
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0203

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 9.5 | 9.5 | 9.5 | 9.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 3100. | 3100. | 3100. | 3100. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.1 | 7.1 | 7.1 | 7.1 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.079 | 0.079 | 0.079 | 0.079 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 | 0.4 | 0.4 | 0.4 | 0.4 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 15.7 | 15.7 | 15.7 | 15.7 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 38. | 38. | 38. | 38. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 207. | 207. | 207. | 207. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 | 3. | 3. | 3. | 3. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 151. | 151. | 151. | 151. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 1737. | 1737. | 1737. | 1737. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 1054. | 1054. | 1054. | 1054. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0203

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 29. | 29. | 29. | 29. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 126. | 126. | 126. | 126. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 6100. | 6100. | 6100. | 6100. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 2.46 | 2.46 | 2.46 | 2.46 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0203

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0204

NPS Station ID: BICA0204
 Location: 129682
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.422503/-107.971115

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_069 /7020748
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0204

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/07/78-11/07/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/07/78-11/07/78 | 1 | 1700. | 1700. | 1700. | 1700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/07/78-11/07/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/07/78-11/07/78 | 1 | 7.4 | 7.4 | 7.4 | 7.4 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/07/78-11/07/78 | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/07/78-11/07/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/07/78-11/07/78 | 1 | 78.6 | 78.6 | 78.6 | 78.6 | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS NA) | 11/07/78-11/07/78 | 1 | 43.6 | 43.6 | 43.6 | 43.6 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/07/78-11/07/78 | 1 | 3.4 | 3.4 | 3.4 | 3.4 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/07/78-11/07/78 | 1 | 49. | 49. | 49. | 49. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/07/78-11/07/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/07/78-11/07/78 | 1 | 223. | 223. | 223. | 223. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/07/78-11/07/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/07/78-11/07/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/07/78-11/07/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/07/78-11/07/78 | 1 | 76. | 76. | 76. | 76. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/07/78-11/07/78 | 1 | 41. | 41. | 41. | 41. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/07/78-11/07/78 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/07/78-11/07/78 | 1 | 16. | 16. | 16. | 16. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0204

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/07/78-11/07/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 11/07/78-11/07/78 | 1 | 5233. | 5233. | 5233. | 5233. | 0. | 0. | ** | ** | ** | ** |
| 01085 VANADIUM, DISSOLVED (UG/L AS V) | 11/07/78-11/07/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01090 ZINC, DISSOLVED (UG/L AS ZN) | 11/07/78-11/07/78 | 1 | 30. | 30. | 30. | 30. | 0. | 0. | ** | ** | ** | ** |
| 01106 ALUMINUM, DISSOLVED (UG/L AS AL) | 11/07/78-11/07/78 | 1 | 86. | 86. | 86. | 86. | 0. | 0. | ** | ** | ** | ** |
| 01110 CERIUM, DISSOLVED (UG/L AS CE) | 11/07/78-11/07/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 LITHIUM, DISSOLVED (UG/L AS LI) | 11/07/78-11/07/78 | 1 | 31. | 31. | 31. | 31. | 0. | 0. | ** | ** | ** | ** |
| 01140 SILICON, DISSOLVED (UG/L AS SI) | 11/07/78-11/07/78 | 1 | 7400. | 7400. | 7400. | 7400. | 0. | 0. | ** | ** | ** | ** |
| 01150 TITANIUM, DISSOLVED (UG/L AS TI) | 11/07/78-11/07/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/07/78-11/07/78 | 1 | 12. | 12. | 12. | 12. | 0. | 0. | ** | ** | ** | ** |
| 01187 SCANDIUM, DISSOLVED (UG/L AS SC) | 11/07/78-11/07/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01201 YTTRIUM, DISSOLVED (UG/L AS Y) | 11/07/78-11/07/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 22703 URANIUM, NATURAL, DISSOLVED | 11/07/78-11/07/78 | 1 | 14.18 | 14.18 | 14.18 | 14.18 | 0. | 0. | ** | ** | ** | ** |
| 50580 NIOBIUM, DISSOLVED UG/L | 11/07/78-11/07/78 | 1 | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 82365 THORIUM, DISSOLVED IN WATER UG/L | 11/07/78-11/07/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0204

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|----------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01005 BARIUM, DISSOLVED | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01010 BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01030 CHROMIUM, DISSOLVED | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01040 COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01065 NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01075 SILVER, DISSOLVED | Fresh Acute | 4.1 | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01090 ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0205

NPS Station ID: BICA0205
 Location: 129666
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00
 Description:

LAT/LON: 45.433893/-107.860309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_086 /7020723
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

THE SITE IS LOCATED ON THE LEMONADE SPRINGS MONTANA-BIGHORN CO. AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL, SURFACE WATER, AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0205

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 1700. | 1700. | 1700. | 1700. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.2 | 7.2 | 7.2 | 7.2 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.063 | 0.063 | 0.063 | 0.063 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 6.2 | 6.2 | 6.2 | 6.2 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 72. | 72. | 72. | 72. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 567. | 567. | 567. | 567. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 99. | 99. | 99. | 99. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 | 14. | 14. | 14. | 14. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 1788. | 1788. | 1788. | 1788. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0205

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th | |
|-----------|-----------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|----|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 | 10. | 10. | 10. | 10. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 23. | 23. | 23. | 23. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 128. | 128. | 128. | 128. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1 ## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 53. | 53. | 53. | 53. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 9800. | 9800. | 9800. | 9800. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 | 4. | 4. | 4. | 4. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 40.96 | 40.96 | 40.96 | 40.96 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 ## | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1 ## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0205

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0206

NPS Station ID: BICA0206
 Location: 129677
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080014004800.00

LAT/LON: 45.442503/-107.881892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.75

Agency: 11NPSWRD
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): BICA_NURE_092 /7020740
 Within Park Boundary: No

Date Created: 11/08/97

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.35

On/Off RF1:
 On/Off RF3:

Description:
 THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0206

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/05/78-11/05/78 | 1 | 7. | 7. | 7. | 7. | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/05/78-11/05/78 | 1 | 1900. | 1900. | 1900. | 1900. | 0. | 0. | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 11/05/78-11/05/78 | 1 | 7.5 | 7.5 | 7.5 | 7.5 | 0. | 0. | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/05/78-11/05/78 | 1 | 0.032 | 0.032 | 0.032 | 0.032 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 11/05/78-11/05/78 | 1 ## | 0.2 | 0.2 | 0.2 | 0.2 | 0. | 0. | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 11/05/78-11/05/78 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** | ** |
| 01005 BARIUM, DISSOLVED (UG/L AS BA) | 11/05/78-11/05/78 | 1 | 94. | 94. | 94. | 94. | 0. | 0. | ** | ** | ** | ** |
| 01010 BERYLLIUM, DISSOLVED (UG/L AS BE) | 11/05/78-11/05/78 | 1 ## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01020 BORON, DISSOLVED (UG/L AS B) | 11/05/78-11/05/78 | 1 | 588. | 588. | 588. | 588. | 0. | 0. | ** | ** | ** | ** |
| 01030 CHROMIUM, DISSOLVED (UG/L AS CR) | 11/05/78-11/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01035 COBALT, DISSOLVED (UG/L AS CO) | 11/05/78-11/05/78 | 1 ## | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 01040 COPPER, DISSOLVED (UG/L AS CU) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01046 IRON, DISSOLVED (UG/L AS FE) | 11/05/78-11/05/78 | 1 | 84. | 84. | 84. | 84. | 0. | 0. | ** | ** | ** | ** |
| 01056 MANGANESE, DISSOLVED (UG/L AS MN) | 11/05/78-11/05/78 | 1 | 158. | 158. | 158. | 158. | 0. | 0. | ** | ** | ** | ** |
| 01060 MOLYBDENUM, DISSOLVED (UG/L AS MO) | 11/05/78-11/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01065 NICKEL, DISSOLVED (UG/L AS NI) | 11/05/78-11/05/78 | 1 | 13. | 13. | 13. | 13. | 0. | 0. | ** | ** | ** | ** |
| 01075 SILVER, DISSOLVED (UG/L AS AG) | 11/05/78-11/05/78 | 1 | 2. | 2. | 2. | 2. | 0. | 0. | ** | ** | ** | ** |
| 01080 STRONTIUM, DISSOLVED (UG/L AS SR) | 11/05/78-11/05/78 | 1 | 2008. | 2008. | 2008. | 2008. | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0206

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-----------------------------------|-------------------|-----|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | 11/05/78-11/05/78 | 1 | 8. | 8. | 8. | 8. | 0. | 0. | ** | ** | ** | ** |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 11/05/78-11/05/78 | 1 | 41. | 41. | 41. | 41. | 0. | 0. | ** | ** | ** | ** |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 11/05/78-11/05/78 | 1 | 98. | 98. | 98. | 98. | 0. | 0. | ** | ** | ** | ** |
| 01110 | CERIUM, DISSOLVED (UG/L AS CE) | 11/05/78-11/05/78 | 1## | 15. | 15. | 15. | 15. | 0. | 0. | ** | ** | ** | ** |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | 11/05/78-11/05/78 | 1 | 64. | 64. | 64. | 64. | 0. | 0. | ** | ** | ** | ** |
| 01140 | SILICON, DISSOLVED (UG/L AS SI) | 11/05/78-11/05/78 | 1 | 9300. | 9300. | 9300. | 9300. | 0. | 0. | ** | ** | ** | ** |
| 01150 | TITANIUM, DISSOLVED (UG/L AS TI) | 11/05/78-11/05/78 | 1 | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01160 | ZIRCONIUM, DISSOLVED (UG/L AS ZR) | 11/05/78-11/05/78 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 01187 | SCANDIUM, DISSOLVED (UG/L AS SC) | 11/05/78-11/05/78 | 1## | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 01201 | YTTRIUM, DISSOLVED (UG/L AS Y) | 11/05/78-11/05/78 | 1 | 1. | 1. | 1. | 1. | 0. | 0. | ** | ** | ** | ** |
| 22703 | URANIUM, NATURAL, DISSOLVED | 11/05/78-11/05/78 | 1 | 26.8 | 26.8 | 26.8 | 26.8 | 0. | 0. | ** | ** | ** | ** |
| 50580 | NIOBIUM, DISSOLVED UG/L | 11/05/78-11/05/78 | 1 | 11. | 11. | 11. | 11. | 0. | 0. | ** | ** | ** | ** |
| 82365 | THORIUM, DISSOLVED IN WATER UG/L | 11/05/78-11/05/78 | 1## | 2.5 | 2.5 | 2.5 | 2.5 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0206

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------------------|----------------|-----------|-----------------|-----------------|---------------------|---|---|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00400 | PH | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 2000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01005 | BARIUM, DISSOLVED | Fresh Acute | 130. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01030 | CHROMIUM, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 4.1 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 100. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 20. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |
| 22703 | URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0207

NPS Station ID: BICA0207
 Location: ROTTENGRASS CREEK ABOVE ST XAVIER
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015002100.07
 Description:

LAT/LON: 45.457781/-107.723615

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 3.19

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2467R001
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0207

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-------------------------------------------------------|-------------------|------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 11/19/73-11/19/73 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | 0. | 0. | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 11/19/73-11/19/73 | 1 | 2020. | 2020. | 2020. | 2020. | 0. | 0. | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 11/19/73-11/19/73 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 11/19/73-11/19/73 | 1 | 8.2 | 8.2 | 8.2 | 8.2 | 0. | 0. | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 11/19/73-11/19/73 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0. | 0. | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 11/19/73-11/19/73 | 1 | 220. | 220. | 220. | 220. | 0. | 0. | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 11/19/73-11/19/73 | 1 | 269. | 269. | 269. | 269. | 0. | 0. | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 11/19/73-11/19/73 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 11/19/73-11/19/73 | 1 | 0.06 | 0.06 | 0.06 | 0.06 | 0. | 0. | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 11/19/73-11/19/73 | 1 | 672. | 672. | 672. | 672. | 0. | 0. | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 11/19/73-11/19/73 | 1 | 160. | 160. | 160. | 160. | 0. | 0. | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 11/19/73-11/19/73 | 1 | 66. | 66. | 66. | 66. | 0. | 0. | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 11/19/73-11/19/73 | 1 | 97. | 97. | 97. | 97. | 0. | 0. | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 11/19/73-11/19/73 | 1 | 6. | 6. | 6. | 6. | 0. | 0. | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 11/19/73-11/19/73 | 1 | 628. | 628. | 628. | 628. | 0. | 0. | ** | ** | ** | ** |
| 01002 ARSENIC, TOTAL (UG/L AS AS) | 11/19/73-11/19/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS CD) | 11/19/73-11/19/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01042 COPPER, TOTAL (UG/L AS CU) | 11/19/73-11/19/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01045 IRON, TOTAL (UG/L AS FE) | 11/19/73-11/19/73 | 1 | 740. | 740. | 740. | 740. | 0. | 0. | ** | ** | ** | ** |
| 01051 LEAD, TOTAL (UG/L AS PB) | 11/19/73-11/19/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01092 ZINC, TOTAL (UG/L AS ZN) | 11/19/73-11/19/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 11/19/73-11/19/73 | 1 | 1226. | 1226. | 1226. | 1226. | 0. | 0. | ** | ** | ** | ** |
| 70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 11/19/73-11/19/73 | 1 | 0.146 | 0.146 | 0.146 | 0.146 | 0. | 0. | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0207

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|------------------------------------|----------------|------------|-----------|-----------------|-----------------|---------------------|---|------|---------------------|---|------|---------------------|---|------|---------------|---|------|
| 00403 PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 |
| | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 |
| 00620 NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 |
| 00940 CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 |
| | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | 1 | 0 | 0.00 |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: BICA0207

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|-------------------------|------------|--------------|--------------------|--------------------|---------------------|---|------|---------------------|--|--|---------------------|--|--|---------------|--|--|
| 00945 | SULFATE, TOTAL (AS SO4) | 250. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | | |
| 01002 | ARSENIC, TOTAL | 360. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 50. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01027 | CADMIUM, TOTAL | 3.9 | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| | Drinking Water | 5. | 0 & | 0 | 0.00 | | | | | | | | | | | | |
| 01042 | COPPER, TOTAL | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01051 | LEAD, TOTAL | 82. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 15. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| 01092 | ZINC, TOTAL | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |
| | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0208

NPS Station ID: BICA0208
 Location: ROTTENGRASS CREEK BELOW ST XAVIER SEWAGE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015003800.00
 Description:

LAT/LON: 45.462226/-107.727505

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 3.97

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2467RO02
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0208

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 12/20/73-12/20/73 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 12/20/73-12/20/73 | 1 | 1642. | 1642. | 1642. | 1642. | 0. | 0. | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 12/20/73-12/20/73 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 12/20/73-12/20/73 | 1 | 7.6 | 7.6 | 7.6 | 7.6 | 0. | 0. | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 12/20/73-12/20/73 | 1 | 0.025 | 0.025 | 0.025 | 0.025 | 0. | 0. | ** | ** | ** |
| 01027 | CADMIUM, TOTAL (UG/L AS CD) | 12/20/73-12/20/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 12/20/73-12/20/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 01045 | IRON, TOTAL (UG/L AS FE) | 12/20/73-12/20/73 | 1 | 350. | 350. | 350. | 350. | 0. | 0. | ** | ** | ** |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 12/20/73-12/20/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 12/20/73-12/20/73 | 1 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0208

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|----------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00403 | PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01027 | CADMIUM, TOTAL | Fresh Acute | 3.9 | 0 & | 0 | 0.00 | | | | | | | | | | | |
| | | Drinking Water | 5. | 0 & | 0 | 0.00 | | | | | | | | | | | |
| 01042 | COPPER, TOTAL | Fresh Acute | 18. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 1300. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01051 | LEAD, TOTAL | Fresh Acute | 82. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 15. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 01092 | ZINC, TOTAL | Fresh Acute | 120. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 5000. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0209

NPS Station ID: BICA0209
 Location: ROTTEN GRASS CREEK AT MOUTH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015003800.00
 Description:
 CROW 208 WQ PROGRAM

LAT/LON: 45.471392/-107.735003

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.21

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2467RO03
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.02

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0209

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|------------------------------------------------------|-------------------|------|--------|----------|---------|---------|------------|-----------|------|------|------|------|
| 00010 TEMPERATURE, WATER (DEGREES CENTIGRADE) | 06/30/76-04/20/83 | 8 | 14.2 | 12.038 | 21. | 0. | 63.137 | 7.946 | ** | ** | ** | ** |
| 00061 FLOW, STREAM, INSTANTANEOUS CFS | 06/30/76-04/20/83 | 8 | 39. | 42.375 | 126. | 8. | 1491.125 | 38.615 | ** | ** | ** | ** |
| 00070 TURBIDITY, (JACKSON CANDLE UNITS) | 04/20/83-04/20/83 | 1 | 21. | 21. | 21. | 21. | 0. | 0. | ** | ** | ** | ** |
| 00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 06/30/76-07/14/77 | 7 | 1090. | 1199.286 | 1800. | 700. | 164553.571 | 405.652 | ** | ** | ** | ** |
| 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 01/12/77-04/20/83 | 5 | 1235. | 1362. | 1800. | 1049. | 112666.5 | 335.658 | ** | ** | ** | ** |
| 00300 OXYGEN, DISSOLVED MG/L | 06/30/76-07/14/77 | 7 | 9.2 | 10.086 | 13.9 | 7.8 | 5.675 | 2.382 | ** | ** | ** | ** |
| 00400 PH (STANDARD UNITS) | 06/30/76-04/20/83 | 8 | 8. | 7.9 | 8.1 | 7.1 | 0.109 | 0.33 | ** | ** | ** | ** |
| 00400 CONVERTED PH (STANDARD UNITS) | 06/30/76-04/20/83 | 8 | 8. | 7.733 | 8.1 | 7.1 | 0.14 | 0.375 | ** | ** | ** | ** |
| 00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 06/30/76-04/20/83 | 8 | 0.01 | 0.018 | 0.079 | 0.008 | 0.001 | 0.025 | ** | ** | ** | ** |
| 00403 PH, LAB, STANDARD UNITS SU | 01/12/77-04/20/83 | 5 | 8. | 8.04 | 8.3 | 7.8 | 0.033 | 0.182 | ** | ** | ** | ** |
| 00403 CONVERTED PH, LAB, STANDARD UNITS | 01/12/77-04/20/83 | 5 | 8. | 8.011 | 8.3 | 7.8 | 0.034 | 0.185 | ** | ** | ** | ** |
| 00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 01/12/77-04/20/83 | 5 | 0.01 | 0.01 | 0.016 | 0.005 | 0. | 0.004 | ** | ** | ** | ** |
| 00410 ALKALINITY, TOTAL (MG/L AS CaCO3) | 06/30/76-04/20/83 | 8 | 209.5 | 219.125 | 328. | 138. | 3356.125 | 57.932 | ** | ** | ** | ** |
| 00440 BICARBONATE ION (MG/L AS HCO3) | 01/12/77-04/20/83 | 5 | 267. | 288.4 | 400. | 220. | 5018.3 | 70.84 | ** | ** | ** | ** |
| 00445 CARBONATE ION (MG/L AS CO3) | 01/12/77-04/20/83 | 5 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** | ** |
| 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L) | 11/11/76-04/20/83 | 6 | 42. | 134.667 | 490. | 15. | 34171.067 | 184.854 | ** | ** | ** | ** |
| 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 06/30/76-04/20/83 | 8 ## | 0.1 | 0.164 | 0.5 | 0.005 | 0.035 | 0.187 | ** | ** | ** | ** |
| 00620 NITRATE NITROGEN, TOTAL (MG/L AS N) | 06/30/76-07/14/77 | 7 | 0.3 | 0.363 | 0.97 | 0.1 | 0.084 | 0.29 | ** | ** | ** | ** |
| 00625 NITROGEN, Kjeldahl, TOTAL, (MG/L AS N) | 06/30/76-07/14/77 | 7 | 0.5 | 0.787 | 1.599 | 0.17 | 0.266 | 0.515 | ** | ** | ** | ** |
| 00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N) | 04/20/83-04/20/83 | 1 ## | 0.005 | 0.005 | 0.005 | 0.005 | 0. | 0. | ** | ** | ** | ** |
| 00665 PHOSPHORUS, TOTAL (MG/L AS P) | 06/30/76-04/20/83 | 8 | 0.045 | 0.066 | 0.21 | 0.005 | 0.006 | 0.077 | ** | ** | ** | ** |
| 00900 HARDNESS, TOTAL (MG/L AS CaCO3) | 01/12/77-04/20/83 | 5 | 560. | 608.6 | 886. | 445. | 35631.3 | 188.763 | ** | ** | ** | ** |
| 00915 CALCIUM, DISSOLVED (MG/L AS Ca) | 01/12/77-04/20/83 | 5 | 137. | 148.2 | 223. | 110. | 2151.7 | 46.386 | ** | ** | ** | ** |
| 00925 MAGNESIUM, DISSOLVED (MG/L AS MG) | 01/12/77-04/20/83 | 5 | 53. | 57.94 | 80. | 40.2 | 348.448 | 18.667 | ** | ** | ** | ** |
| 00930 SODIUM, DISSOLVED (MG/L AS Na) | 01/12/77-04/20/83 | 5 | 80. | 93.8 | 120. | 72. | 520.2 | 22.808 | ** | ** | ** | ** |
| 00935 POTASSIUM, DISSOLVED (MG/L AS K) | 01/12/77-04/20/83 | 5 | 4. | 3. | 4. | 0. | 3. | 1.732 | ** | ** | ** | ** |
| 00940 CHLORIDE, TOTAL IN WATER MG/L | 01/12/77-04/20/83 | 5 | 11. | 10.8 | 14. | 6. | 9.7 | 3.114 | ** | ** | ** | ** |
| 00945 SULFATE, TOTAL (MG/L AS SO4) | 01/12/77-04/20/83 | 5 | 458. | 562.4 | 794. | 411. | 33263.3 | 182.382 | ** | ** | ** | ** |
| 00950 FLUORIDE, DISSOLVED (MG/L AS F) | 01/12/77-07/14/77 | 4 | 0.39 | 0.398 | 0.45 | 0.36 | 0.002 | 0.041 | ** | ** | ** | ** |
| 00955 SILICA, DISSOLVED (MG/L AS SiO2) | 01/12/77-07/14/77 | 4 | 16. | 16.75 | 26. | 9. | 65.583 | 8.098 | ** | ** | ** | ** |
| 01002 ARSENIC, TOTAL (UG/L AS AS) | 01/12/77-07/14/77 | 4 ## | 2. | 2.375 | 5. | 0.5 | 4.229 | 2.056 | ** | ** | ** | ** |
| 01012 BERYLLIUM, TOTAL (UG/L AS BE) | 01/12/77-07/14/77 | 4 ## | 5. | 11.998 | 32.99 | 5. | 195.86 | 13.995 | ** | ** | ** | ** |
| 01022 BORON, TOTAL (UG/L AS B) | 01/12/77-07/14/77 | 4 | 255. | 251.25 | 300. | 195. | 2272.917 | 47.675 | ** | ** | ** | ** |
| 01027 CADMIUM, TOTAL (UG/L AS Cd) | 01/12/77-07/14/77 | 4 ## | 0.5 | 1.375 | 4. | 0.5 | 3.063 | 1.75 | ** | ** | ** | ** |
| 01034 CHROMIUM, TOTAL (UG/L AS CR) | 01/12/77-07/14/77 | 4 | 29. | 32.5 | 67. | 5. | 659.667 | 25.684 | ** | ** | ** | ** |
| 01037 COBALT, TOTAL (UG/L AS CO) | 01/12/77-07/14/77 | 4 ## | 5. | 7.75 | 16. | 5. | 30.25 | 5.5 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: BICA0209

| Parameter | | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|-------------------------------------------------|-------------------|------|--------|---------|---------|---------|--------------|-----------|------|------|------|------|
| 01042 | COPPER, TOTAL (UG/L AS CU) | 01/12/77-07/14/77 | 4 ## | 12.5 | 13. | 22. | 5. | 86. | 9.274 | ** | ** | ** | ** |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 01/12/77-07/14/77 | 4 | 2095. | 3310. | 9000. | 50. | 16634733.333 | 4078.57 | ** | ** | ** | ** |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 01/12/77-07/14/77 | 4 ## | 5. | 5. | 5. | 5. | 0. | 0. | ** | ** | ** | ** |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 01/12/77-07/14/77 | 4 | 70. | 99.975 | 239.9 | 20. | 9524.003 | 97.591 | ** | ** | ** | ** |
| 01062 | MOLYBDENUM, TOTAL (UG/L AS MO) | 01/12/77-07/14/77 | 4 ## | 16. | 16.25 | 28. | 5. | 168.917 | 12.997 | ** | ** | ** | ** |
| 01067 | NICKEL, TOTAL (UG/L AS NI) | 01/12/77-07/14/77 | 4 | 21. | 17.75 | 24. | 5. | 74.917 | 8.655 | ** | ** | ** | ** |
| 01082 | STRONTIUM, TOTAL (UG/L AS SR) | 01/12/77-07/14/77 | 4 | 3404. | 4134.25 | 8329. | 1400. | 8869676.917 | 2978.2 | ** | ** | ** | ** |
| 01087 | VANADIUM, TOTAL (UG/L AS V) | 01/12/77-07/14/77 | 4 ## | 21.5 | 26. | 56. | 5. | 642. | 25.338 | ** | ** | ** | ** |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 01/12/77-07/14/77 | 4 | 24.5 | 24. | 42. | 5. | 302. | 17.378 | ** | ** | ** | ** |
| 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 01/12/77-07/14/77 | 4 | 2215. | 3602.25 | 9339. | 640. | 16810866.917 | 4100.106 | ** | ** | ** | ** |
| 01132 | LITHIUM, TOTAL (UG/L AS LI) | 01/12/77-07/14/77 | 4 | 95. | 108.75 | 200. | 45. | 5072.917 | 71.224 | ** | ** | ** | ** |
| 01147 | SELENIUM, TOTAL (UG/L AS SE) | 01/12/77-07/14/77 | 4 | 2. | 2.25 | 4. | 1. | 1.583 | 1.258 | ** | ** | ** | ** |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L | 01/12/77-07/14/77 | 4 | 859.5 | 1022. | 1566. | 803. | 133936.667 | 365.974 | ** | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 01/12/77-04/20/83 | 5 | 1071. | 1181. | 1646. | 897. | 100030.5 | 316.276 | ** | ** | ** | ** |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 06/30/76-04/20/83 | 8 ## | 0.015 | 0.017 | 0.04 | 0.005 | 0. | 0.013 | ** | ** | ** | ** |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 01/12/77-07/14/77 | 4 ## | 0.325 | 0.338 | 0.6 | 0.1 | 0.062 | 0.25 | ** | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0209

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 00400 | PH | Fresh Chronic | 9. | 8 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 00403 | PH, LAB | Fresh Chronic | 9. | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 7 | 0 | 0.00 | 3 | 0 | 0.00 | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 1 | 0 | 0.00 | | | 1 | 0 | 0.00 | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 5 | 0 | 0.00 | 1 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 5 | 5 | 1.00 | 1 | 1 | 1.00 | 3 | 3 | 1.00 | 1 | 1 | 1.00 | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01002 | ARSENIC, TOTAL | Fresh Acute | 360. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01012 | BERYLLIUM, TOTAL | Fresh Acute | 130. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 4. | 1 & | 1 | 1.00 | | | 1 | 1 | 1.00 | | | | | | |
| 01027 | CADMIUM, TOTAL | Fresh Acute | 3.9 | 4 | 1 | 0.25 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 1 | 1.00 | | |
| | | Drinking Water | 5. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01034 | CHROMIUM, TOTAL | Drinking Water | 100. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01042 | COPPER, TOTAL | Fresh Acute | 18. | 4 | 2 | 0.50 | 1 | 1 | 1.00 | 2 | 1 | 0.50 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 1300. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01051 | LEAD, TOTAL | Fresh Acute | 82. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 15. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01067 | NICKEL, TOTAL | Fresh Acute | 1400. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 100. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01092 | ZINC, TOTAL | Fresh Acute | 120. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 5000. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01147 | SELENIUM, TOTAL | Fresh Acute | 20. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 71900 | MERCURY, TOTAL | Fresh Acute | 2.4 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 2. | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | 1 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: BICA0210

NPS Station ID: BICA0210
 Location: BEAUVAIS CREEK 20 MI S OF HARDIN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 10080015
 Major Basin: MISSOURI RIVER
 Minor Basin: YELLOWSTONE RIVER
 RF1 Index: 10080015
 RF3 Index: 10080015003805.17
 Description:
 OLD WEST SALINE SEEP

LAT/LON: 45.481392/-107.769448

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.43

Agency: 21MTHDWQ
 FIPS State/County: 30003 MONTANA/BIG HORN
 STORET Station ID(s): 2467BE01
 Within Park Boundary: No

Date Created: 10/12/85

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: BICA0210

| Parameter | Period of Record | Obs | Median | Mean | Maximum | Minimum | Variance | Std. Dev. | 10th | 25th | 75th | 90th |
|-----------|------------------------------------------------|-------------------|--------|-------|---------|---------|----------|-----------|------|------|------|------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 09/16/76-09/16/76 | 1 | 23. | 23. | 23. | 23. | 0. | 0. | ** | ** | ** |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 09/16/76-09/16/76 | 1 | 2535. | 2535. | 2535. | 2535. | 0. | 0. | ** | ** | ** |
| 00403 | PH, LAB, STANDARD UNITS SU | 09/16/76-09/16/76 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** |
| 00403 | CONVERTED PH, LAB, STANDARD UNITS | 09/16/76-09/16/76 | 1 | 7.8 | 7.8 | 7.8 | 7.8 | 0. | 0. | ** | ** | ** |
| 00403 | MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH | 09/16/76-09/16/76 | 1 | 0.016 | 0.016 | 0.016 | 0.016 | 0. | 0. | ** | ** | ** |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 09/16/76-09/16/76 | 1 | 114. | 114. | 114. | 114. | 0. | 0. | ** | ** | ** |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 09/16/76-09/16/76 | 1 | 139. | 139. | 139. | 139. | 0. | 0. | ** | ** | ** |
| 00445 | CARBONATE ION (MG/L AS CO3) | 09/16/76-09/16/76 | 1 | 0. | 0. | 0. | 0. | 0. | 0. | ** | ** | ** |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 09/16/76-09/16/76 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | 0. | ** | ** | ** |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 09/16/76-09/16/76 | 1 | 960. | 960. | 960. | 960. | 0. | 0. | ** | ** | ** |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 09/16/76-09/16/76 | 1 | 244. | 244. | 244. | 244. | 0. | 0. | ** | ** | ** |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 09/16/76-09/16/76 | 1 | 85. | 85. | 85. | 85. | 0. | 0. | ** | ** | ** |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | 09/16/76-09/16/76 | 1 | 79. | 79. | 79. | 79. | 0. | 0. | ** | ** | ** |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 09/16/76-09/16/76 | 1 | 5.4 | 5.4 | 5.4 | 5.4 | 0. | 0. | ** | ** | ** |
| 00940 | CHLORIDE, TOTAL IN WATER MG/L | 09/16/76-09/16/76 | 1 | 9. | 9. | 9. | 9. | 0. | 0. | ** | ** | ** |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 09/16/76-09/16/76 | 1 | 960. | 960. | 960. | 960. | 0. | 0. | ** | ** | ** |
| 70301 | SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) | 09/16/76-09/16/76 | 1 | 1520. | 1520. | 1520. | 1520. | 0. | 0. | ** | ** | ** |

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: BICA0210

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00403 | PH, LAB | Fresh Chronic | 9. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Other-Lo Lim. | 6.5 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 250. | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1 | 1 | 1.00 | 1 | 1 | 1.00 | | | | | | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire BICA Study Area

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|--------------------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 00070 | TURBIDITY, JACKSON CANDLE UNITS | Other-Hi Lim. | 50. | 637 | 150 | 0.24 | 243 | 56 | 0.23 | 238 | 58 | 0.24 | 156 | 36 | 0.23 | | |
| 00076 | TURBIDITY, HACH TURBIDIMETER | Other-Hi Lim. | 50. | 41 | 20 | 0.49 | 27 | 10 | 0.37 | 9 | 6 | 0.67 | 5 | 4 | 0.80 | | |
| 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE | Other-Lo Lim. | 4. | 91 | 21 | 0.23 | 39 | 15 | 0.38 | 26 | 4 | 0.15 | 26 | 2 | 0.08 | | |
| 00300 | OXYGEN, DISSOLVED | Other-Lo Lim. | 4. | 617 | 26 | 0.04 | 383 | 22 | 0.06 | 161 | 0 | 0.00 | 73 | 4 | 0.05 | | |
| 00400 | PH | Fresh Chronic | 9. | 1490 | 3 | 0.00 | 923 | 1 | 0.00 | 304 | 1 | 0.00 | 263 | 1 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 1490 | 2 | 0.00 | 923 | 0 | 0.00 | 304 | 1 | 0.00 | 263 | 1 | 0.00 | | |
| 00403 | PH, LAB | Fresh Chronic | 9. | 275 | 1 | 0.00 | 151 | 1 | 0.01 | 75 | 0 | 0.00 | 49 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 275 | 0 | 0.00 | 151 | 0 | 0.00 | 75 | 0 | 0.00 | 49 | 0 | 0.00 | | |
| 00406 | PH, FIELD | Fresh Chronic | 9. | 502 | 0 | 0.00 | 186 | 0 | 0.00 | 152 | 0 | 0.00 | 164 | 0 | 0.00 | | |
| | | Other-Lo Lim. | 6.5 | 502 | 0 | 0.00 | 186 | 0 | 0.00 | 152 | 0 | 0.00 | 164 | 0 | 0.00 | | |
| 00613 | NITRITE NITROGEN, DISSOLVED AS N | Drinking Water | 1. | 8 | 0 | 0.00 | 4 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 00615 | NITRITE NITROGEN, TOTAL AS N | Drinking Water | 1. | 457 | 0 | 0.00 | 167 | 0 | 0.00 | 142 | 0 | 0.00 | 148 | 0 | 0.00 | | |
| 00618 | NITRATE NITROGEN, DISSOLVED AS N | Drinking Water | 10. | 121 | 0 | 0.00 | 78 | 0 | 0.00 | 24 | 0 | 0.00 | 19 | 0 | 0.00 | | |
| 00620 | NITRATE NITROGEN, TOTAL AS N | Drinking Water | 10. | 617 | 0 | 0.00 | 233 | 0 | 0.00 | 187 | 0 | 0.00 | 197 | 0 | 0.00 | | |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. | Drinking Water | 10. | 336 | 0 | 0.00 | 202 | 0 | 0.00 | 90 | 0 | 0.00 | 44 | 0 | 0.00 | | |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. | Drinking Water | 10. | 365 | 1 | 0.00 | 248 | 1 | 0.00 | 61 | 0 | 0.00 | 56 | 0 | 0.00 | | |
| 00720 | CYANIDE, TOTAL | Fresh Acute | 0.022 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 0.2 | 1 | 0 | 0.00 | 1 | 0 | 0.00 | | | | | | | | |
| 00940 | CHLORIDE, TOTAL IN WATER | Fresh Acute | 860. | 1390 | 0 | 0.00 | 867 | 0 | 0.00 | 296 | 0 | 0.00 | 227 | 0 | 0.00 | | |
| | | Drinking Water | 250. | 1390 | 0 | 0.00 | 867 | 0 | 0.00 | 296 | 0 | 0.00 | 227 | 0 | 0.00 | | |
| 00945 | SULFATE, TOTAL (AS SO4) | Drinking Water | 250. | 1396 | 944 | 0.68 | 871 | 652 | 0.75 | 297 | 180 | 0.61 | 228 | 112 | 0.49 | | |
| 00950 | FLUORIDE, DISSOLVED AS F | Drinking Water | 4. | 1202 | 0 | 0.00 | 780 | 0 | 0.00 | 236 | 0 | 0.00 | 186 | 0 | 0.00 | | |
| 00951 | FLUORIDE, TOTAL AS F | Drinking Water | 4. | 153 | 0 | 0.00 | 68 | 0 | 0.00 | 45 | 0 | 0.00 | 40 | 0 | 0.00 | | |
| 01000 | ARSENIC, DISSOLVED | Fresh Acute | 360. | 31 | 0 | 0.00 | 23 | 0 | 0.00 | 5 | 0 | 0.00 | 3 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 31 | 1 | 0.03 | 23 | 1 | 0.04 | 5 | 0 | 0.00 | 3 | 0 | 0.00 | | |
| 01002 | ARSENIC, TOTAL | Fresh Acute | 360. | 18 | 0 | 0.00 | 6 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 18 | 0 | 0.00 | 6 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 01005 | BARIUM, DISSOLVED | Drinking Water | 2000. | 59 | 0 | 0.00 | 55 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01010 | BERYLLIUM, DISSOLVED | Fresh Acute | 130. | 57 | 0 | 0.00 | 53 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 4. | 57 | 0 | 0.00 | 53 | 0 | 0.00 | 3 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01012 | BERYLLIUM, TOTAL | Fresh Acute | 130. | 16 | 0 | 0.00 | 4 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| | | Drinking Water | 4. | 1 & | 1 | 1.00 | | | 1 | 1 | 1.00 | | | | | | |
| 01025 | CADMIUM, DISSOLVED | Fresh Acute | 3.9 | 30 & | 2 | 0.07 | 21 | 0 | 0.00 | 5 | 1 | 0.20 | 4 | 1 | 0.25 | | |
| | | Drinking Water | 5. | 30 & | 2 | 0.07 | 21 | 0 | 0.00 | 5 | 1 | 0.20 | 4 | 1 | 0.25 | | |
| 01027 | CADMIUM, TOTAL | Fresh Acute | 3.9 | 23 & | 1 | 0.04 | 4 | 0 | 0.00 | 15 | 0 | 0.00 | 4 | 1 | 0.25 | | |
| | | Drinking Water | 5. | 23 & | 0 | 0.00 | 4 | 0 | 0.00 | 15 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 01030 | CHROMIUM, DISSOLVED | Drinking Water | 100. | 116 | 1 | 0.01 | 77 | 0 | 0.00 | 5 | 0 | 0.00 | 34 | 1 | 0.03 | | |
| 01032 | CHROMIUM, HEXAVALENT | Fresh Acute | 16. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | |
| | | Drinking Water | 100. | 2 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | | | | |
| 01034 | CHROMIUM, TOTAL | Drinking Water | 100. | 17 | 0 | 0.00 | 5 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 01040 | COPPER, DISSOLVED | Fresh Acute | 18. | 129 | 26 | 0.20 | 84 | 18 | 0.21 | 8 | 0 | 0.00 | 37 | 8 | 0.22 | | |
| | | Drinking Water | 1300. | 129 | 0 | 0.00 | 84 | 0 | 0.00 | 8 | 0 | 0.00 | 37 | 0 | 0.00 | | |
| 01042 | COPPER, TOTAL | Fresh Acute | 18. | 250 | 7 | 0.03 | 75 | 4 | 0.05 | 112 | 1 | 0.01 | 63 | 2 | 0.03 | | |
| | | Drinking Water | 1300. | 250 | 0 | 0.00 | 75 | 0 | 0.00 | 112 | 0 | 0.00 | 63 | 0 | 0.00 | | |
| 01049 | LEAD, DISSOLVED | Fresh Acute | 82. | 83 & | 44 | 0.53 | 42 | 14 | 0.33 | 6 | 0 | 0.00 | 35 | 30 | 0.86 | | |
| | | Drinking Water | 15. | 83 & | 45 | 0.54 | 42 | 14 | 0.33 | 6 | 0 | 0.00 | 35 | 31 | 0.89 | | |
| 01051 | LEAD, TOTAL | Fresh Acute | 82. | 19 | 0 | 0.00 | 7 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| | | Drinking Water | 15. | 19 | 0 | 0.00 | 7 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 01065 | NICKEL, DISSOLVED | Fresh Acute | 1400. | 100 | 0 | 0.00 | 67 | 0 | 0.00 | 3 | 0 | 0.00 | 30 | 0 | 0.00 | | |
| | | Drinking Water | 100. | 100 | 19 | 0.19 | 67 | 1 | 0.01 | 3 | 0 | 0.00 | 30 | 18 | 0.60 | | |
| 01067 | NICKEL, TOTAL | Fresh Acute | 1400. | 17 | 0 | 0.00 | 4 | 0 | 0.00 | 9 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| | | Drinking Water | 100. | 17 | 1 | 0.06 | 4 | 0 | 0.00 | 9 | 1 | 0.11 | 4 | 0 | 0.00 | | |
| 01075 | SILVER, DISSOLVED | Fresh Acute | 4.1 | 61 & | 9 | 0.15 | 56 | 9 | 0.16 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| | | Drinking Water | 100. | 62 | 0 | 0.00 | 57 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | | |
| 01090 | ZINC, DISSOLVED | Fresh Acute | 120. | 127 | 30 | 0.24 | 82 | 13 | 0.16 | 8 | 0 | 0.00 | 37 | 17 | 0.46 | | |
| | | Drinking Water | 5000. | 127 | 0 | 0.00 | 82 | 0 | 0.00 | 8 | 0 | 0.00 | 37 | 0 | 0.00 | | |
| 01092 | ZINC, TOTAL | Fresh Acute | 120. | 241 | 16 | 0.07 | 69 | 3 | 0.04 | 112 | 6 | 0.05 | 60 | 7 | 0.12 | | |
| | | Drinking Water | 5000. | 241 | 0 | 0.00 | 69 | 0 | 0.00 | 112 | 0 | 0.00 | 60 | 0 | 0.00 | | |
| 01145 | SELENIUM, DISSOLVED | Fresh Acute | 20. | 40 | 0 | 0.00 | 27 | 0 | 0.00 | 7 | 0 | 0.00 | 6 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 40 | 0 | 0.00 | 27 | 0 | 0.00 | 7 | 0 | 0.00 | 6 | 0 | 0.00 | | |
| 01147 | SELENIUM, TOTAL | Fresh Acute | 20. | 16 | 0 | 0.00 | 4 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| | | Drinking Water | 50. | 16 | 0 | 0.00 | 4 | 0 | 0.00 | 8 | 0 | 0.00 | 4 | 0 | 0.00 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire BICA Study Area

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|---------------------------------------------------|----------------|------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 04035 SIMAZINE, DISSOLVED, WATER, TOTAL RECOVER | Drinking Water | 4 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | | |
| 22703 URANIUM, NATURAL DISSOLVED | Drinking Water | 20. | 102 | 8 | 0.08 | 53 | 7 | 0.13 | | | | 49 | 1 | 0.02 | | | |
| 22705 URANIUM, NATURAL SUSPENDED | Drinking Water | 20. | 1 | 1 | 1.00 | | | | | | | 1 | 1 | 1.00 | | | |
| 31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMEDIATE | Other-Hi Lim. | 1000. | 19 | 6 | 0.32 | 14 | 4 | 0.29 | 3 | 2 | 0.67 | 2 | 0 | 0.00 | | | |
| 31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C | Other-Hi Lim. | 1000. | 61 | 20 | 0.33 | 28 | 8 | 0.29 | 11 | 5 | 0.45 | 22 | 7 | 0.32 | | | |
| 31506 COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C | Other-Hi Lim. | 1000. | 31 | 2 | 0.06 | 11 | 2 | 0.18 | 3 | 0 | 0.00 | 17 | 0 | 0.00 | | | |
| 31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR | Other-Hi Lim. | 200. | 38 | 9 | 0.24 | 14 | 2 | 0.14 | 10 | 3 | 0.30 | 14 | 4 | 0.29 | | | |
| 31614 FECAL COLIFORM, MPN, TUBE CONFIGURATION | Other-Hi Lim. | 200. | 273 | 36 | 0.13 | 155 | 15 | 0.10 | 58 | 14 | 0.24 | 60 | 7 | 0.12 | | | |
| 31615 FECAL COLIFORM, MPN | Other-Hi Lim. | 200. | 56 | 14 | 0.25 | 25 | 7 | 0.28 | 14 | 3 | 0.21 | 17 | 4 | 0.24 | | | |
| 31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH | Other-Hi Lim. | 200. | 62 | 14 | 0.23 | 34 | 3 | 0.09 | 15 | 7 | 0.47 | 13 | 4 | 0.31 | | | |
| 31625 FECAL COLIFORM, MF | Other-Hi Lim. | 200. | 166 | 86 | 0.52 | 112 | 45 | 0.40 | 30 | 20 | 0.67 | 24 | 21 | 0.88 | | | |
| 34653 P,P'-DDE, DISSOLVED | Fresh Acute | 1050. | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | | |
| 38866 OXAMYL, DISSOLVED | Drinking Water | 200. | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | | |
| 38933 CHLORPYRIFOS, DISSOLVED | Fresh Acute | 0.083 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | | |
| 39330 ALDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 3. | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39331 ALDRIN IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 3. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39332 ALDRIN IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 3. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39340 GAMMA-BHC(LINDANE), WHOLE WATER | Fresh Acute | 2. | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39341 GAMMA-BHC(LINDANE), DISSOLVED | Fresh Acute | 2. | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 1 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 1 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 39342 GAMMA-BHC(LINDANE), SUSPENDED | Fresh Acute | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39350 CHLORDANE(TECH MIX & METABS), WHOLE WATER | Fresh Acute | 2.4 | 26 | 0 | 0.00 | 16 | 0 | 0.00 | 8 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 26 | 0 | 0.00 | 16 | 0 | 0.00 | 8 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39352 CHLORDANE(TECH MIX & METABS), DISSOLVED | Fresh Acute | 2.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39353 CHLORDANE(TECH MIX & METABS), SUSPENDED | Fresh Acute | 2.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39360 DDD IN WHOLE WATER SAMPLE | Fresh Acute | 0.6 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39361 DDD IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 0.6 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39362 DDD IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 0.6 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39365 DDE IN WHOLE WATER SAMPLE | Fresh Acute | 1050. | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39366 DDE IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 1050. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39367 DDE IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 1050. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39370 DDT IN WHOLE WATER SAMPLE | Fresh Acute | 1.1 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39371 DDT IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 1.1 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39372 DDT IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 1.1 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39380 DIELDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 2.5 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39381 DIELDRIN IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 2.5 | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 1 | 0 | 0.00 | 4 | 0 | 0.00 | | | |
| 39382 DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 2.5 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39388 ENDOSULFAN IN WHOLE WATER SAMPLE | Fresh Acute | 0.22 | 15 | 0 | 0.00 | 8 | 0 | 0.00 | 7 | 0 | 0.00 | | | | | | |
| 39390 ENDRIN IN WHOLE WATER SAMPLE | Fresh Acute | 0.18 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 0.18 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39392 ENDRIN IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 0.18 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 2. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39400 TOXAPHENE IN WHOLE WATER SAMPLE | Fresh Acute | 0.73 | 17 | 0 | 0.00 | 10 | 0 | 0.00 | 7 | 0 | 0.00 | | | | | | |
| | Drinking Water | 3. | 17 | 0 | 0.00 | 10 | 0 | 0.00 | 7 | 0 | 0.00 | | | | | | |
| 39410 HEPTACHLOR IN WHOLE WATER SAMPLE | Fresh Acute | 0.52 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39412 HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.4 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE | Fresh Acute | 0.52 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 28 | 0 | 0.00 | 17 | 0 | 0.00 | 8 | 0 | 0.00 | 3 | 0 | 0.00 | | | |
| 39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER | Fresh Acute | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| 39422 HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER | Fresh Acute | 0.52 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |
| | Drinking Water | 0.2 | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire BICA Study Area

| Parameter | Std. Type | Std. Value | Total Obs | Exceed Standard | Prop. Exceeding | -----8/10-4/14----- | | | -----4/15-6/19----- | | | -----6/20-8/09----- | | | -----n/a----- | | |
|-----------|------------------------------------------|----------------|--------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------|-------|---------------------|--------|-------|---------------|--------|-------|
| | | | | | | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. | Obs | Exceed | Prop. |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE | Drinking Water | 40. | 6 | 0 | 0.00 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | | |
| 39540 | PARATHION IN WHOLE WATER SAMPLE | Fresh Acute | 0.065 | 24 | 0 | 0.00 | 14 | 0 | 0.00 | 8 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 39542 | PARATHION IN FILT. FRAC. OF WATER SAMPLE | Fresh Acute | 0.065 | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 1 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 39543 | PARATHION IN SUSP. FRAC. OF WATER SAMPLE | Fresh Acute | 0.065 | 7 | 0 | 0.00 | 4 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 39632 | ATRAZINE DISSOLVED IN WATER | Drinking Water | 3. | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | |
| 39720 | PICLORAM IN WHOLE WATER SAMPLE | Drinking Water | 500. | 34 | 0 | 0.00 | 14 | 0 | 0.00 | 9 | 0 | 0.00 | 11 | 0 | 0.00 | | |
| 39730 | 2,4-D IN WHOLE WATER SAMPLE | Drinking Water | 70. | 62 | 0 | 0.00 | 30 | 0 | 0.00 | 18 | 0 | 0.00 | 14 | 0 | 0.00 | | |
| 39732 | 2,4-D IN FILT. FRAC. OF WATER SAMPLE | Drinking Water | 70. | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 1 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 39733 | 2,4-D IN SUSP. FRAC. OF WATER SAMPLE | Drinking Water | 70. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 39760 | SILVEX IN WHOLE WATER SAMPLE | Drinking Water | 50. | 62 | 0 | 0.00 | 30 | 0 | 0.00 | 18 | 0 | 0.00 | 14 | 0 | 0.00 | | |
| 39762 | SILVEX IN FILT. FRAC. OF WATER SAMPLE | Drinking Water | 50. | 13 | 0 | 0.00 | 8 | 0 | 0.00 | 1 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 39763 | SILVEX IN SUSP. FRAC. OF WATER SAMPLE | Drinking Water | 50. | 9 | 0 | 0.00 | 6 | 0 | 0.00 | 1 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 46342 | ALACHLOR (LASSO), WATER, DISSOLVED | Drinking Water | 2. | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | | | 2 | 0 | 0.00 | | |
| 71850 | NITRATE NITROGEN, TOTAL (AS NO3) | Drinking Water | 44. | 117 | 0 | 0.00 | 70 | 0 | 0.00 | 29 | 0 | 0.00 | 18 | 0 | 0.00 | | |
| 71851 | NITRATE NITROGEN, DISSOLVED (AS NO3) | Drinking Water | 44. | 818 | 2 | 0.00 | 528 | 1 | 0.00 | 165 | 0 | 0.00 | 125 | 1 | 0.01 | | |
| 71856 | NITRITE NITROGEN, DISSOLVED (AS NO2) | Drinking Water | 3.3 | 63 | 36 | 0.57 | 41 | 25 | 0.61 | 14 | 5 | 0.36 | 8 | 6 | 0.75 | | |
| 71890 | MERCURY, DISSOLVED | Fresh Acute | 2.4 | 22 | 2 | 0.09 | 16 | 2 | 0.13 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| | | Drinking Water | 2. | 22 | 2 | 0.09 | 16 | 2 | 0.13 | 4 | 0 | 0.00 | 2 | 0 | 0.00 | | |
| 71900 | MERCURY, TOTAL | Fresh Acute | 2.4 | 25 | 0 | 0.00 | 6 | 0 | 0.00 | 15 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| | | Drinking Water | 2. | 25 | 0 | 0.00 | 6 | 0 | 0.00 | 15 | 0 | 0.00 | 4 | 0 | 0.00 | | |
| 82079 | TURBIDITY, LAB | Other-Hi Lim. | 50. | 31 | 11 | 0.35 | 19 | 6 | 0.32 | 3 | 2 | 0.67 | 9 | 3 | 0.33 | | |

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

**NPS Servicewide Inventory and Monitoring Program Level I
Water Quality Parameter Inventory Data Evaluation and Analysis:
Missing Level I Groups**

There are STORET Data for Every Level I I&M Parameter Group Within
the BICA Study Area

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the BICA Study Area Exist for These Groups:

| Alkalinity | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
|-------------------|------------------------------------------------|---------------|-------------------------|-------------------------|--------------------|-----------------------|
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | 1060 | 0 | 378 | 682 | 37 |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 23 | 0 | 0 | 23 | 4 |
| 00440 | BICARBONATE ION (MG/L AS HCO ₃) | 1244 | 0 | 199 | 1045 | 29 |
| 00445 | CARBONATE ION (MG/L AS CO ₃) | 927 | 0 | 113 | 814 | 25 |
| | | 3254 | 0 | 690 | 2564 | 95 (45) ¹ |
| pH | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00400 | PH (STANDARD UNITS) | 1491 | 79 | 478 | 934 | 142 |
| 00403 | PH, LAB (STANDARD UNITS) | 275 | 39 | 100 | 136 | 19 |
| 00406 | PH, FIELD (STANDARD UNITS) | 502 | 0 | 0 | 502 | 9 |
| | | 2268 | 118 | 578 | 1572 | 170(159) ¹ |
| Conductivity | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | 2738 | 0 | 159 | 2579 | 21 |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 1781 | 327 | 483 | 971 | 133 |
| | | 4519 | 327 | 642 | 3550 | 154(150) ¹ |
| Dissolved Oxygen | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L) | 91 | 0 | 0 | 91 | 1 |
| 00300 | OXYGEN, DISSOLVED (MG/L) | 617 | 48 | 295 | 274 | 30 |
| 00301 | OXYGEN, DISSOLVED, PERCENT OF SATURATION | 7 | 0 | 7 | 0 | 1 |
| | | 715 | 48 | 302 | 365 | 32 (31) ¹ |
| Water Temperature | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 7452 | 348 | 755 | 6349 | 159 |
| 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 280 | 257 | 0 | 23 | 18 |
| | | 7732 | 605 | 755 | 6372 | 177(177) ¹ |
| Flow | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00058 | FLOW RATE, GALLONS/MIN. | 7 | 0 | 0 | 7 | 7 |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | 1059 | 0 | 7 | 1052 | 5 |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | 1087 | 343 | 480 | 264 | 17 |
| 00065 | STAGE, STREAM (FEET) | 52 | 52 | 0 | 0 | 1 |
| | | 2205 | 395 | 487 | 1323 | 30 (24) ¹ |

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

| Clarity/Turbidity | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
|------------------------------------------|---------------------------------------------------|------------|----------------------|----------------------|-----------------|-----------------------|
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 637 | 0 | 86 | 551 | 14 |
| 00075 | TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE) | 3 | 0 | 0 | 3 | 1 |
| 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 41 | 0 | 41 | 0 | 4 |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 20 | 0 | 20 | 0 | 7 |
| 00078 | TRANSPARENCY, SECCHI DISC (METERS) | 37 | 0 | 37 | 0 | 9 |
| 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 35 | 0 | 35 | 0 | 6 |
| 82079 | TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | 31 | 0 | 31 | 0 | 4 |
| | | 804 | 0 | 250 | 554 | 45 (37) ¹ |
| Nitrate/Nitrogen | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00600 | NITROGEN, TOTAL (MG/L AS N) | 167 | 1 | 41 | 125 | 5 |
| 00602 | NITROGEN, DISSOLVED (MG/L AS N) | 101 | 0 | 0 | 101 | 3 |
| 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 38 | 1 | 36 | 1 | 3 |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 10 | 0 | 1 | 9 | 2 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 806 | 41 | 304 | 461 | 36 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 121 | 0 | 55 | 66 | 3 |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 617 | 0 | 48 | 569 | 32 |
| 00625 | NITROGEN, KJELDAHL, TOTAL (MG/L AS N) | 333 | 42 | 279 | 12 | 22 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 336 | 50 | 274 | 12 | 24 |
| 00631 | NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) | 365 | 28 | 222 | 115 | 4 |
| 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH4) | 4 | 0 | 4 | 0 | 2 |
| 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4) | 67 | 0 | 1 | 66 | 4 |
| 71850 | NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 117 | 0 | 0 | 117 | 2 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO3) | 819 | 0 | 55 | 764 | 15 |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO2) | 63 | 0 | 1 | 62 | 5 |
| | | 3964 | 163 | 1321 | 2480 | 162 (61) ¹ |
| Phosphate/Phosphorus | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 131 | 0 | 2 | 129 | 4 |
| 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 74 | 0 | 0 | 74 | 3 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 663 | 0 | 44 | 619 | 14 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 631 | 65 | 505 | 61 | 69 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 255 | 9 | 161 | 85 | 3 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 342 | 0 | 274 | 68 | 21 |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 60 | 0 | 31 | 29 | 15 |
| | | 2156 | 74 | 1017 | 1065 | 129 (87) ¹ |
| Chlorophyll | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 32210 | CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED | 38 | 0 | 38 | 0 | 9 |
| 32217 | CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED | 21 | 0 | 21 | 0 | 7 |
| | | 59 | 0 | 59 | 0 | 16 (16) ¹ |
| Sulfates/Total Dissolved Solids/Hardness | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 1233 | 9 | 290 | 934 | 30 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 1397 | 28 | 301 | 1068 | 33 |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L) | 828 | 0 | 16 | 812 | 18 |
| | | 3458 | 37 | 607 | 2814 | 81 (38) ¹ |

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

| Bacteria | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
|----------|----------------------------------------------------|---------------|-------------------------|-------------------------|--------------------|----------------------|
| 31501 | COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C | 19 | 0 | 2 | 17 | 4 |
| 31505 | COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506) | 61 | 0 | 2 | 59 | 3 |
| 31506 | COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG. | 31 | 31 | 0 | 0 | 2 |
| 31613 | FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR | 40 | 22 | 18 | 0 | 3 |
| 31614 | FECAL COLIFORM, MPN, TUBE CONFIGURATION | 273 | 13 | 245 | 15 | 2 |
| 31615 | FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614) | 56 | 0 | 0 | 56 | 1 |
| 31616 | FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C | 64 | 0 | 47 | 17 | 5 |
| 31625 | FECAL COLIFORM, MF, M-FC, 0.7 UM | 166 | 49 | 117 | 0 | 3 |
| | | 710 | 115 | 431 | 164 | 23 (13) ¹ |

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

| Toxic Elements | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
|----------------|----------------------------------------------------|---------------|-------------------------|-------------------------|--------------------|-------------------|
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 31 | 17 | 0 | 14 | 4 |
| 01002 | ARSENIC, TOTAL (UG/L AS AS) | 18 | 0 | 16 | 2 | 5 |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 57 | 11 | 38 | 8 | 38 |
| 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 16 | 0 | 16 | 0 | 4 |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 32 | 17 | 0 | 15 | 4 |
| 01027 | CADMIUM, TOTAL (UG/L AS CD) | 27 | 0 | 16 | 11 | 12 |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 116 | 19 | 84 | 13 | 85 |
| 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 2 | 0 | 0 | 2 | 2 |
| 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 17 | 0 | 16 | 1 | 5 |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 129 | 19 | 84 | 26 | 87 |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 250 | 0 | 16 | 234 | 22 |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 85 | 19 | 46 | 20 | 51 |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 19 | 0 | 16 | 3 | 6 |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 22 | 17 | 0 | 5 | 2 |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 25 | 0 | 16 | 9 | 11 |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 100 | 10 | 84 | 6 | 84 |
| 01067 | NICKEL, TOTAL (UG/L AS NI) | 17 | 0 | 17 | 0 | 4 |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 40 | 34 | 0 | 6 | 6 |
| 01147 | SELENIUM, TOTAL (UG/L AS SE) | 16 | 0 | 16 | 0 | 4 |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 62 | 17 | 38 | 7 | 39 |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 127 | 17 | 84 | 26 | 88 |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 241 | 0 | 16 | 225 | 22 |
| 00720 | CYANIDE, TOTAL (MG/L AS CN) | 1 | 0 | 0 | 1 | 1 |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39331 | ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39332 | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 34253 | A-BHC-ALPHA, DISSOLVED (UG/L) | 4 | 4 | 0 | 0 | 2 |
| 39340 | GAMMA-BHC(LINDANE), WHOLE WATER (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39341 | GAMMA-BHC(LINDANE), DISSOLVED (UG/L) | 13 | 4 | 0 | 9 | 2 |
| 39342 | GAMMA-BHC(LINDANE), SUSPENDED (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39350 | CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L) | 26 | 0 | 17 | 9 | 2 |
| 39352 | CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39353 | CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39371 | DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39372 | DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 34653 | P,P'-DDE, DISSOLVED (UG/L) | 4 | 4 | 0 | 0 | 2 |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39366 | DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39367 | DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39361 | DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39362 | DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 13 | 4 | 0 | 9 | 2 |
| 39382 | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39391 | ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39392 | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39411 | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39412 | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 28 | 0 | 17 | 11 | 3 |
| 39421 | HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L) | 9 | 0 | 0 | 9 | 1 |
| 39422 | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L) | 9 | 0 | 0 | 9 | 1 |

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

| Toxic Elements - Continued ... | | Total Obs. | 01/01/85 to 04/14/97 | 01/01/75 to 12/31/84 | Before 01/01/75 | Total Stations |
|--------------------------------|----------------------------------------|---------------|-------------------------|-------------------------|--------------------|-----------------------|
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 17 | 0 | 17 | 0 | 2 |
| | | 1941 | 213 | 806 | 922 | 643(114) ¹ |

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

| Parameter Group | Total Obs. | Obs. Since 1985 | % Obs. Since 1985 | Stations Measuring This Group | % of Total Stations Measuring This Group | Obs. Per Station Measuring This Group | Period of Record For This Group | Observations Per Year of Period of Record |
|------------------------------------------|------------|-----------------|-------------------|-------------------------------|------------------------------------------|---------------------------------------|---------------------------------|-------------------------------------------|
| Alkalinity | 3254 | 0 | 0.0 | 45 | 21.7 | 72.3 | 03/26/47-04/20/83 | 90.2 |
| pH | 2268 | 118 | 5.2 | 159 | 76.8 | 14.3 | 03/26/47-04/14/97 | 45.3 |
| Conductivity | 4519 | 327 | 7.2 | 150 | 72.5 | 30.1 | 03/26/47-04/14/97 | 90.3 |
| Dissolved Oxygen | 715 | 48 | 6.7 | 31 | 15.0 | 23.1 | 05/27/57-04/14/97 | 17.9 |
| Water Temperature | 7732 | 605 | 7.8 | 177 | 85.5 | 43.7 | 06/25/47-04/14/97 | 155.2 |
| Flow | 2205 | 395 | 17.9 | 24 | 11.6 | 91.9 | 03/26/47-04/14/97 | 44.1 |
| Clarity/Turbidity | 804 | 0 | 0.0 | 37 | 17.9 | 21.7 | 02/22/68-09/08/83 | 51.7 |
| Nitrate/Nitrogen | 3964 | 163 | 4.1 | 61 | 29.5 | 65.0 | 03/26/47-08/23/89 | 93.5 |
| Phosphate/Phosphorus | 2156 | 74 | 3.4 | 87 | 42.0 | 24.8 | 02/22/68-08/23/89 | 100.3 |
| Chlorophyll | 59 | 0 | 0.0 | 16 | 7.7 | 3.7 | 05/21/75-11/26/80 | 10.7 |
| Sulfates/Total Dissolved Solids/Hardness | 3458 | 37 | 1.1 | 38 | 18.4 | 91.0 | 03/26/47-07/26/88 | 83.7 |
| Bacteria | 710 | 115 | 16.2 | 13 | 6.3 | 54.6 | 03/24/67-09/06/95 | 24.9 |
| Toxic Elements | 1941 | 213 | 11.0 | 114 | 55.1 | 17.0 | 05/27/57-07/30/96 | 49.5 |

Water Quality Observations Outside STORET Edit Criteria for BICA

(Disposition: X = Discarded, Blank = Retained)

| NPS Station ID | Parameter | Date | Time | Parameter Value | Agency | STORET Station ID | Disposition |
|----------------|-----------|--------------------------------------------------|--------|-----------------|--------------|-------------------|-----------------|
| BICA0002 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 800409 | 1030 | 3900.0000000 | 112WRD | 06279500 |
| BICA0002 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 800729 | 1000 | 1900.0000000 | 112WRD | 06279500 |
| BICA0002 | 00076 | TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 801017 | 1215 | 2400.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651101 | | 5000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651111 | | 5000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651121 | | 4000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651201 | | 5000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651213 | | 5000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660101 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660111 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660120 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660201 | | 7600.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660211 | | 7700.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660219 | | 7600.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660301 | | 7800.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660313 | | 8000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660323 | | 8000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660401 | | 8100.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660408 | | 7500.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660418 | | 7900.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660501 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660508 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660516 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660523 | | 3000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660601 | | 7100.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660611 | | 7200.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660701 | | 7700.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660709 | | 8000.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660725 | | 7400.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660801 | | 7700.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660813 | | 7800.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660901 | | 7300.0000000 | 112WRD | 06279500 |
| BICA0002 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660921 | | 7400.0000000 | 112WRD | 06279500 |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 680601 | | 2900.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 680612 | | 4900.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 680819 | | 1600.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 690414 | | 3600.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 690428 | | 1700.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 690624 | | 1710.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0006 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 690721 | | 1680.0000000 | 11NPSWRD | BICA_SOLT_BIGHO |
| BICA0019 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 800409 | 1355 | 1800.0000000 | 112WRD | 06285100 |

Water Quality Observations
Outside STORET Edit Criteria for BICA
(Disposition: X = Discarded, Blank = Retained)

| NPS Station ID | Parameter | Date | Time | Parameter Value | Agency | STORET Station ID | Disposition |
|----------------|-----------|--------------------------------------|--------|-----------------|--------|-------------------|-------------|
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 621005 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 621109 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 621203 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630102 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630204 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630304 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630401 | 6000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630503 | 8000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630603 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630703 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630809 | 13000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630903 | 20000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 630930 | 9000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 631104 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 631202 | 7000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640106 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640203 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640302 | 6000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640403 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640507 | 35000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640605 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640702 | 8000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640807 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 640905 | 2000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651101 | 4000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651111 | 2000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651121 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651201 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651212 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 651222 | 10000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660101 | 3000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660111 | 2000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660121 | 2000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660201 | 7900.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660207 | 7800.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660215 | 7800.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660301 | 8000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660314 | 8000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660323 | 8000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660401 | 7700.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660412 | 7700.0000000 | 112WRD | 06286200 | |

Water Quality Observations
Outside STORET Edit Criteria for BICA
(Disposition: X = Discarded, Blank = Retained)

| NPS Station ID | Parameter | Date | Time | Parameter Value | Agency | STORET Station ID | Disposition |
|----------------|-----------|-----------------------------------------|--------|-----------------|----------|-------------------|-------------|
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660418 | 7700.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660501 | 5000.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660601 | 7100.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660616 | 7300.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660701 | 7700.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660710 | 7700.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660719 | 7700.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660801 | 7600.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660815 | 7700.0000000 | 112WRD | 06286200 | |
| BICA0026 | 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 660901 | 7300.0000000 | 112WRD | 06286200 | |
| BICA0029 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 680612 | 2220.0000000 | 11NPSWRD | BICA_SOLT_SHOSH | |
| BICA0029 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 680624 | 1750.0000000 | 11NPSWRD | BICA_SOLT_SHOSH | |
| BICA0029 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 690407 | 2540.0000000 | 11NPSWRD | BICA_SOLT_SHOSH | |
| BICA0039 | 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 680607 | 3350.0000000 | 11NPSWRD | BICA_SOLT_5 | |
| BICA0076 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 1544.0000000 | 11NPSWRD | BICA_NURE_105 | |
| BICA0078 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 1923.0000000 | 11NPSWRD | BICA_NURE_017 | |
| BICA0081 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 3371.0000000 | 11NPSWRD | BICA_NURE_098 | |
| BICA0082 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 5250.0000000 | 11NPSWRD | BICA_NURE_016 | |
| BICA0085 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 1859.0000000 | 11NPSWRD | BICA_NURE_129 | |
| BICA0086 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 3557.0000000 | 11NPSWRD | BICA_NURE_019 | |
| BICA0088 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780630 | 3398.0000000 | 11NPSWRD | BICA_NURE_107 | |
| BICA0089 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780630 | 3409.0000000 | 11NPSWRD | BICA_NURE_020 | |
| BICA0090 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780715 | 1478.0000000 | 11NPSWRD | BICA_NURE_018 | |
| BICA0091 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780630 | 1400.0000000 | 11NPSWRD | BICA_NURE_108 | |
| BICA0093 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780630 | 2857.0000000 | 11NPSWRD | BICA_NURE_048 | |
| BICA0094 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780630 | 3312.0000000 | 11NPSWRD | BICA_NURE_128 | |
| BICA0095 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 1473.0000000 | 11NPSWRD | BICA_NURE_012 | |
| BICA0098 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 1207.0000000 | 11NPSWRD | BICA_NURE_028 | |
| BICA0101 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780705 | 1841.0000000 | 11NPSWRD | BICA_NURE_029 | |
| BICA0109 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780630 | 1619.0000000 | 11NPSWRD | BICA_NURE_011 | |
| BICA0111 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780414 | 1744.0000000 | 11NPSWRD | BICA_NURE_031 | |
| BICA0112 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780714 | 1473.0000000 | 11NPSWRD | BICA_NURE_109 | |
| BICA0114 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780714 | 2123.0000000 | 11NPSWRD | BICA_NURE_111 | |
| BICA0118 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780714 | 2321.0000000 | 11NPSWRD | BICA_NURE_033 | |
| BICA0119 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780714 | 1205.0000000 | 11NPSWRD | BICA_NURE_113 | |
| BICA0121 | 01049 | LEAD, DISSOLVED (UG/L AS PB) | 780714 | 1210.0000000 | 11NPSWRD | BICA_NURE_034 | |
| BICA0181 | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 760701 | 57.0000000 | 21MTHDWQ | 2266BI01 | X |
| BICA0181 | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 770706 | 48.0000000 | 21MTHDWQ | 2266BI01 | X |
| BICA0186 | 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 770607 | 77.0000000 | 21MTHDWQ | 2267SO01 | X |

APPENDICES

Appendix A
Computer Files Transmitted With
Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E *COMPRESS.ZIP FILENAME.EXT*

where *COMPRESS.ZIP* is the name of one of the seven compressed (ZIP) files listed below and *FILENAME.EXT* is the name of the file you wish to extract. If you want to decompress all of the files in *COMPRESS.ZIP*, simply omit the *FILENAME.EXT*. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V *COMPRESS.ZIP* |MORE

where *COMPRESS.ZIP* is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for *FILENAME.EXT* in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menu-driven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) BICATABS.ZIP

This compressed file contains all the tables presented in the report. The files compressed into this file include:

- | | | |
|------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| (a) BICASITE.DOC | - | Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases. |
| (b) BICAAGNC.DOC | - | Contacts for agencies whose data were retrieved within the study area. |
| (c) BICAAGNQ.DOC | - | Number of stations, observations, and parameters retrieved by agency code within the study area and park. |

- (d) BICAOV0.DOC - Overview of park and retrieved data.
- (e) BICAOV1.DOC - Station period of record table.
- (f) BICAOV2.DOC - Parameter period of record table.
- (g) BICAOV3.DOC - Station/parameter period of record table.
- (h) BICAINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.
- (i) BICASEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.
- (j) BICAEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.
- (k) BICAIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.
- (l) BICABAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document BICAOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\BICAOV1.DOC. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). Alternatively, you can use the PRINTZIP program to decompress and print any of these files provided the ZIP file doesn't span multiple disks. These ASCII files can also be imported into word-processed documents, but the printer codes will then have to be removed.

(2) BICAFIGS.ZIP

This compressed file contains graphics files for all the statistical figures (time series plots; annual box and whiskers plots; seasonal box and whiskers plots) in the report in two different formats: Computer Graphic Metafile (CGM) and Hewlett-Packard Printer Control Language (PCL). The files are named with the last three digits of the Station Name followed by the five digit STORET code. The file name extension begins with either a 1 (time series), 2 (annual), or 3 (seasonal) and then either GM for CGM or CL for PCL. For example, 00100300.2GM would denote the file contains an annual box and whiskers plot in CGM format for parameter 00300 (dissolved oxygen) at station BICA0001. While at the DOS prompt, any PCL file can be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the COPY command. For example, if the graphic 00100300.2CL (an annual box and whiskers plot of parameter 00300, dissolved oxygen, at station BICA0001) is in the subdirectory C:\WATER, you would type: COPY C:\WATER\00100300.2CL LPT1: /B. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). The /B is necessary because the PCL file is in a binary format. Alternatively, you can use the PRINTZIP program to decompress and print any of the PCL files provided the ZIP file doesn't span multiple disks. The CGM files can be imported and/or edited in most graphics packages, including WordPerfect.

(3) BICAPARM.ZIP

This file compresses BICAPARM.DBF which contains all the actual values (raw data) of all the water quality data downloaded from STORET and summarized in the report. The detailed database structure for this file is contained in Appendix B.

(4) BICASITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

- (a) BICAWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.
- (b) BICAIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.
- (c) BICADRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.
- (d) BICAGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.
- (e) BICADAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) BICAMISC.ZIP

This compressed file contains a variety of graphic and document files that are contained in the report. They are grouped into this miscellaneous compressed (ZIP) file because they don't fit neatly into any of the other compressed files. The files contained in this compressed file include:

- (a) BICAEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.
- (b) BICATOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.
- (c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.
- (d) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.
- (e) BICAREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.
- (f) BICAWQ - PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (BICAWQA, BICAWQB, BICAWQC, etc.) and the index map name will end with an ampersand (&).

- (g) BICAIDG - PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (BICAIDGA, BICAIDGB, BICAIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.
- (h) BICASEHY - PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with BICAFIGS.ZIP and BICATABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in BICAMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) BICARF3.ZIP

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

- (a) 12345678.RF3 - ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.
- (b) 12345678.DBF - DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.
- (c) 12345678.TRC - ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.
- (d) 12345678.CUB - ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) BICAWQMW.ZIP

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

| Parameter Data File: BICAPARM.DBF in BICAPARM.ZIP | | | | |
|----------------------------------------------------------|--------------|-------------|---------------|-----------------------------------------------------------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| NPSSTATID | 1 | 8 | 8 | NPS Station ID (NPS park code + 4 digit sequence number) |
| BEGDATE | 9 | 14 | 6 | Measurement Start Date [yymmdd] |
| BEGTIME | 15 | 18 | 4 | Measurement Start Time [hhmm] |
| PARMCODE | 19 | 23 | 5 | STORET Parameter Code |
| PARMVALU | 24 | 39 | 16.7 | Parameter Value |
| REMARK | 40 | 40 | 1 | Parameter Remark Value |
| | | | | A=Value is Mean of 2 or More Determinations |
| | | | | B=Results Based Upon Colony Counts Outside Acceptable Range |
| | | | | C=Value Calculated |
| | | | | D=Field Measurement |
| | | | | E=Extra Sample Taken in Compositing Process |
| | | | | F=Female Species |
| | | | | G=Maximum of 2 or More Determinations |
| | | | | H=Based on Field Kit Determination |
| | | | | I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit |
| | | | | J=Estimated, Not the Result of Analytic Measurement |
| | | | | K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown |
| | | | | L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown |

| Parameter Data File: BICAPARM.DBF in BICAPARM.ZIP | | | | |
|----------------------------------------------------------|--------------|-------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| | | | | M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value |
| | | | | N=Presumptive Evidence of Presence |
| | | | | O=Analysis Lost |
| | | | | P=Too Numerous to Count |
| | | | | Q=Exceeded Normal Holding Time |
| | | | | R=Significant Rain in Last 48 Hours |
| | | | | S=Laboratory test |
| | | | | T=Less Than Detection Criteria |
| | | | | U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined |
| | | | | V=Analyte was Detected in Sample and Method Blank |
| | | | | W=Less Than Lowest Value Reportable Under Remark "T" |
| | | | | X=Quasi Vertically-Integrated Sample |
| | | | | Y=Analysis of Unpreserved Sample |
| | | | | Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value |
| | | | | \$=Calculated By Retrieval Software |
| MEDIA | 41 | 46 | 6 | Sample Media |
| DEPTH | 47 | 55 | 9.3 | Depth of Sample [in feet] |
| ENDDATE | 56 | 61 | 6 | Measurement End Date [yymmdd] [all composite samples] |
| ENDTIME | 62 | 65 | 4 | Measurement End Time [hhmm] [all composite samples] |
| SAMPTYPE | 66 | 69 | 4 | Type of Sample ["sophisticated" composite samples] |
| | | | | C=Continuous Collection |
| | | | | G=Collection of Individual Grab Samples |
| | | | | GNxx=xx is the Number of Individual Grab Samples |
| | | | | B=N/A |

| Parameter Data File: BICAPARM.DBF in BICAPARM.ZIP | | | | |
|----------------------------------------------------------|--------------|-------------|---------------|-----------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| COMPTYPE | 70 | 70 | 1 | Composite Value Type ["sophisticated" composite samples] |
| | | | | A=Average |
| | | | | H=Maximum |
| | | | | L=Minimum |
| | | | | N=Number of Observations |
| | | | | #=Number of Observations |
| | | | | S=Standard Deviation |
| | | | | U=Sum of Squares |
| | | | | V=Variance |
| | | | | C=Coefficient of Error |
| | | | | X=Coefficient of Variance |
| | | | | E=Skewness |
| | | | | F=Kurtosis |
| | | | | Z=Number of Observations That Exceed an Established Limit |
| | | | | %=Precision |
| | | | | \$=Accuracy |
| | | | | B=N/A |
| | | | | D=Indicates Replicate Sample |
| COMPST | 71 | 71 | 1 | Composite Space/Time Indicator |
| | | | | S=Space |
| | | | | T=Time |
| | | | | B=Space and Time |
| | | | | F=Flow Proportional |
| | | | | 1-9=Replicate Number |

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

| Water Quality Station Data File: BICAWQ.DBF in BICASITE.ZIP | | | | |
|--------------------------------------------------------------------|--------------|-------------|---------------|-------------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| NPSSTATID | 1 | 8 | 8 | NPS Station ID (NPS park code + 4 digit sequence number) |
| AGENCY | 9 | 16 | 8 | Agency Code of Station Owner |
| STORIDP | 17 | 31 | 15 | STORET Primary Station Code |
| STORIDS1 | 32 | 43 | 12 | STORET First Secondary Station Code |
| STORIDS2 | 44 | 55 | 12 | STORET Second Secondary Station Code |
| STORIDS3 | 56 | 65 | 10 | STORET Third Secondary Station Code |
| LATITUDE | 66 | 73 | 8 | Station Latitude [degrees:minutes:seconds] |
| LONGITUDE | 74 | 82 | 9 | Station Longitude [degrees:minutes:seconds] |
| LAT | 83 | 93 | 11.6 | Station Latitude [decimal degrees, (-) below equator] |
| LON | 94 | 104 | 11.6 | Station Longitude [decimal degrees, (-) western hemisphere] |
| LLPREC | 105 | 105 | 1 | Latitude/Longitude Precision Code |
| RMI | 106 | 329 | 224 | River Mile Index |
| STATLOC | 330 | 377 | 48 | Station Location Description |
| CNTYCODE | 378 | 382 | 5 | FIPS State/County Code |
| STNAME | 383 | 398 | 16 | State Name |
| CNTYNAME | 399 | 418 | 20 | County Name |
| HYDUNIT | 419 | 426 | 8 | Hydrologic Unit Code (MAJ/MIN/SUB = Catalog Unit) |
| MAJBASN | 427 | 450 | 24 | Major Basin Name |
| MINBASN | 451 | 490 | 40 | Minor Basin Name |
| STATTYPE | 491 | 550 | 60 | Station Type |
| STORDATE | 551 | 556 | 6 | Date Station was Stored in STORET |
| RF1INDEX | 557 | 567 | 11 | RF1 Reach Number Location [2] |
| RF1MILE | 568 | 575 | 8.3 | Mile Point on RF1 Reach [2] |
| RF1LOC | 576 | 578 | 3 | Indicates the Location as ON or OFF RF1 Reach [2] |
| RF1DIST | 579 | 584 | 6.2 | Distance From RF1 Reach |

| Water Quality Station Data File: BICAWQ.DBF in BICASITE.ZIP | | | | |
|--------------------------------------------------------------------|--------------|-------------|---------------|---------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| RF3INDEX | 585 | 601 | 17 | RF3 Reach Number Location [3] |
| RF3MILE | 602 | 607 | 6.2 | Mile point on RF3 Reach [3] |
| RF3LOC | 608 | 610 | 3 | Indicates the Location as ON or OFF RF3 Reach [2] |
| RF3DIST | 611 | 616 | 6.2 | Distance From RF3 Reach |
| DEPH2O | 617 | 620 | 4 | Depth of Water at Station Location [in feet] |
| ELEV | 621 | 625 | 5 | Station Elevation |
| ECOREG | 626 | 628 | 3 | ECO Region |
| H2OBODY | 629 | 678 | 50 | Waterbody ID |
| AQUIFERS | 679 | 718 | 40 | Aquifer Description |
| STATDESC1 | 719 | 790 | 72 | Station Sentence Description |
| STATDESC2 | 791 | 862 | 72 | Station Sentence Description |
| STATDESC3 | 863 | 934 | 72 | Station Sentence Description |
| STATDESC4 | 935 | 1006 | 72 | Station Sentence Description |
| STATDESC5 | 1007 | 1078 | 72 | Station Sentence Description |
| STATDESC6 | 1079 | 1150 | 72 | Station Sentence Description |
| STATDESC7 | 1151 | 1222 | 72 | Station Sentence Description |
| STATDESC8 | 1223 | 1294 | 72 | Station Sentence Description |
| STATDESC9 | 1295 | 1366 | 72 | Station Sentence Description |
| STATDESC10 | 1367 | 1438 | 72 | Station Sentence Description |
| STATDESC11 | 1439 | 1510 | 72 | Station Sentence Description |
| STATDESC12 | 1511 | 1582 | 72 | Station Sentence Description |
| STATDESC13 | 1583 | 1654 | 72 | Station Sentence Description |
| STATDESC14 | 1655 | 1726 | 72 | Station Sentence Description |
| STATDESC15 | 1727 | 1798 | 72 | Station Sentence Description |
| STATLOCKED | 1799 | 1799 | 1 | Station Locked (Logical) True/False |

The following table provides the DBASE III+ database field structures for the EPA Industrial Facilities Discharge database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

| Industrial Facilities Discharges File: BICAIFD.DBF in BICASITE.ZIP | | | | |
|---------------------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| SITEID | 1 | 9 | 9 | Site Identifier (NPDES Number) |
| LATITUDE | 10 | 17 | 8 | Facility Latitude (Degrees:Minutes:Seconds) |
| LONGITUDE | 18 | 26 | 9 | Facility Longitude (Degrees:Minutes:Seconds) |
| LAT | 27 | 37 | 11.6 | Facility Latitude (decimal degrees, (-) below equator) |
| LON | 38 | 48 | 11.6 | Facility Longitude (decimal degrees, (-) west. hem.) |
| RF1INDEX | 49 | 59 | 11 | RF1 Reach Number Location |
| RF1MILE | 60 | 65 | 6.2 | Mile Point on RF1 Reach |
| RF1DIST | 66 | 71 | 6.2 | Distance From RF1 Reach |
| RF3INDEX | 72 | 88 | 17 | RF3 Reach Number Location |
| RF3MILE | 89 | 94 | 6.2 | Mile Point on RF3 Reach |
| RF3DIST | 95 | 100 | 6.2 | Distance From RF3 Reach |
| ADR | 101 | 125 | 25 | Address |
| BFL | 126 | 132 | 7.2 | Total Direct Combined C&P Flow (1000 GPD) |
| CCFLG | 133 | 133 | 1 | Coastal County Flag "Y"/"N"/"E"=Estuary |
| CC1 | 134 | 138 | 5 | City Code #1 (EPA Code) |
| CFL | 139 | 145 | 7.2 | Total Direct Cooling Flow (1000 GPD) |
| CNC | 146 | 148 | 3 | County Code (FIPS) |
| CTY | 149 | 168 | 20 | City Name |
| CZIP | 169 | 177 | 9 | Canadian Zip Code |
| DNB | 178 | 186 | 9 | Dunn & Bradstreet Number |
| DNBFLG | 187 | 187 | 1 | Dunn & Bradstreet PCS Source Flag |
| EGF | 188 | 202 | 15.4 | Flow From Effluent Guidelines (1000 GPD) |
| EGS | 203 | 208 | 6 | Effluent Guidelines Subcategory |
| EXPDT | 209 | 216 | 8 | Expiration Date (mm/dd/yy) |
| E308SN | 217 | 220 | 4 | Effluent Guidelines Survey Number |
| FAC | 221 | 229 | 9 | SCS Facility Identifier (Cross-Reference) |
| FDS | 230 | 232 | 3 | Facility Data Source |

| Industrial Facilities Discharges File: BICAIFD.DBF in BICASITE.ZIP | | | | |
|---------------------------------------------------------------------------|--------------|-------------|---------------|-----------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| FFL | 233 | 239 | 7.2 | Total Facility Flow (1000 GPD) |
| FHF | 240 | 240 | 1 | Fac. Hit Flag (Reach File) V=Versar Assumed |
| FLOTYP | 241 | 243 | 3 | I=Blow Down, R=Bottom Ash, S=Fly Ash |
| FLR | 244 | 250 | 7.2 | Flow Recvd-Industrial (1000 GPD) Permit Data |
| FRDS | 251 | 259 | 9 | FRDS ID# - XREF To Water Supply |
| FRW | 260 | 289 | 30 | Facility Receiving Water Name |
| FS1 | 290 | 293 | 4 | Facility SIC Code (From PCS) |
| FS2 | 294 | 297 | 4 | Facility SIC Code #1 |
| FS3 | 298 | 301 | 4 | Facility SIC Code #2 |
| FS4 | 302 | 305 | 4 | Facility SIC Code #3 |
| FS5 | 306 | 309 | 4 | Facility SIC Code #4 |
| FUD | 310 | 317 | 8 | Facility Level Last Date Updated (mm/dd/yy) |
| IACC | 318 | 318 | 1 | Inactive/Active Indicator ("I" or "A") |
| ICAT | 319 | 320 | 2 | WQAB Industrial Category |
| ICAT2 | 321 | 322 | 2 | WQAB Industrial Category 2 |
| ICAT3 | 323 | 324 | 2 | WQAB Industrial Category 3 |
| IFL | 325 | 331 | 7 | Total Indirect Flow (1000 GPD) |
| IFT | 332 | 332 | 1 | Illinois Facility Type (A thru Z) |
| IG1 | 333 | 334 | 2 | Facility Industrial Group #1 |
| IG2 | 335 | 336 | 2 | Facility Industrial Group #2 |
| IJCN | 337 | 346 | 10 | Canadian Record Identifier |
| INACT | 347 | 353 | 7 | Inactive/Rescinded P=Based on Permit;A=Actual |
| INDCNT | 354 | 357 | 4 | Computed Number of Indirect Dischargers |
| LATLON | 358 | 372 | 15 | Polygon Retrieval Lat/Long. |
| MAJ | 373 | 373 | 1 | Major-Minor Flag (From PCS) |
| MAPID | 374 | 377 | 4 | Map Identifier |
| MJMN | 378 | 381 | 4 | Major/Minor Basin (EPA-STORET) |
| NAM | 382 | 441 | 60 | Facility Name |
| NDC | 442 | 444 | 3 | Number of Discharges (Pipes) |

| Industrial Facilities Discharges File: BICAIFD.DBF in BICASITE.ZIP | | | | |
|---------------------------------------------------------------------------|--------------|-------------|---------------|------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| NDSFLO | 445 | 451 | 7.2 | NEEDS Flow (1000 GPD) |
| NDSIFLO | 452 | 458 | 7.2 | NEEDS Industrial Flow (1000 GPD) |
| NID | 459 | 462 | 4 | Number of Indirect Dischargers |
| NPC | 463 | 463 | 1 | NEEDS Pre-Treatment Code "Y"=Yes, "N"=No |
| NPS | 464 | 464 | 1 | NPDES Facility Source/Status |
| NSN | 465 | 473 | 9 | NEEDS Survey Number |
| NTC | 474 | 474 | 1 | NEEDS Treatment Code |
| OCP | 475 | 480 | 6 | Organic Chemical Producers ID Number |
| ODESCC | 481 | 481 | 1 | ODES Coastal County "Y"=Yes; "N"=No |
| OFL | 482 | 488 | 7.2 | Total Non-Direct Other Flow (1000 GPD) |
| OWN | 489 | 491 | 3 | Ownership Code |
| PFL | 492 | 498 | 7.2 | Total Direct Process Flow (1000 GPD) |
| REG | 499 | 500 | 2 | EPA Region |
| REGKEY | 501 | 504 | 4 | Region Key |
| RSLOFLO | 505 | 511 | 7.2 | Receiving Stream Low Flow |
| RSMNFLO | 512 | 518 | 7.2 | Receiving Stream Mean Flow |
| STA | 519 | 520 | 2 | State Postal Abbreviation |
| STAID | 521 | 535 | 15 | State Identifier |
| STC | 536 | 537 | 2 | State Code (FIPS) |
| STCITY | 538 | 544 | 7 | State/City Code |
| TFLOW | 545 | 551 | 7.2 | Type Flow (1000 GPD) |
| UFL | 552 | 558 | 7.2 | Total Direct Undefined Flow (1000 GPD) |
| XEGS | 559 | 561 | 3 | Effluent Guidelines Subcat Index |
| XKEY | 562 | 562 | 1 | "1","2","3","4","5","6","7","8","9" |
| XNME | 563 | 565 | 3 | GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86 |
| ZIP | 566 | 570 | 5 | Zip Code |

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

| <u>Drinking Water Intakes File: BICADRIN.DBF in BICASITE.ZIP</u> | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| SITEID | 1 | 20 | 20 | Site Identifier |
| LATITUDE | 21 | 28 | 8 | Facility Latitude (Degrees:Minutes:Seconds) |
| LONGITUDE | 29 | 37 | 9 | Facility Longitude (Degrees:Minutes:Seconds) |
| LAT | 38 | 48 | 11.6 | Facility Latitude (decimal degrees, (-) below equator) |
| LON | 49 | 59 | 11.6 | Facility Longitude (decimal degrees, (-) west. hem.) |
| RF1INDEX | 60 | 70 | 11 | RF1 Reach Number Location |
| RF1MILE | 71 | 76 | 6.2 | Mile Point on RF1 Reach |
| RF1DIST | 77 | 82 | 6.2 | Distance From RF1 Reach |
| RF3INDEX | 83 | 99 | 17 | RF3 Reach Number Location |
| RF3MILE | 100 | 105 | 6.2 | Mile Point on RF3 Reach |
| RF3DIST | 106 | 111 | 6.2 | Distance From RF3 Reach |
| AQCD | 112 | 115 | 4 | Aquifer Code |
| ASC | 116 | 138 | 23 | STORET Agency/Station Code |
| AVGD | 139 | 142 | 4 | Average Depth |
| BUY | 143 | 143 | 1 | Purchase Code |
| CC1 | 144 | 148 | 5 | City Code #1 (EPA Code) |
| CNC | 149 | 151 | 3 | County Code (FIPS) |
| CNME | 152 | 166 | 15 | Contact Name |
| CNN | 167 | 186 | 20 | County Name |
| CTITLE | 187 | 201 | 15 | Contact Title |
| CTY | 202 | 221 | 20 | City Name |
| DUD | 222 | 229 | 8 | Date of Update |
| FRDS | 230 | 238 | 9 | FRDS ID# - Cross-Reference |
| GEOAG | 239 | 258 | 20 | Geologic Age |
| GEOCDE | 259 | 261 | 3 | Geologic Age Code |
| IDAT | 262 | 269 | 8 | Date (mm/dd/yy) |

| <u>Drinking Water Intakes File: BICADRIN.DBF in BICASITE.ZIP</u> | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| INTAKET | 270 | 270 | 1 | Type Source G/S/B |
| INTRVWR | 271 | 285 | 15 | Interviewer |
| MAXD | 286 | 289 | 4 | Maximum Depth |
| MILES | 290 | 296 | 7.2 | Miles |
| MIND | 297 | 300 | 4 | Minimum Depth |
| NAME | 301 | 320 | 20 | Name |
| NPD | 321 | 329 | 9 | NPDES# XREF to IFD Database |
| NWLS | 330 | 332 | 3 | Number of Wells |
| OWN | 333 | 335 | 3 | Ownership |
| PAVGF | 336 | 342 | 7.2 | Production Avg. Daily (Gal/Day) |
| PCTSUP | 343 | 345 | 3 | %Surface / %Ground |
| PHONE | 346 | 355 | 10 | Telephone Number |
| PMAXF | 356 | 362 | 7.2 | Production Max. Daily (Gal/Day) |
| POPSV | 363 | 371 | 9 | Population Served |
| REG | 372 | 373 | 2 | EPA Region |
| SHLAT | 374 | 379 | 6 | Sitehelp Latitude (DDMMSS) |
| SHLNG | 380 | 386 | 7 | Sitehelp Longitude (DDDMMSS) |
| SHMILES | 387 | 393 | 7.2 | Sitehelp Miles |
| SHNME | 394 | 403 | 10 | Sitehelp Source Name |
| SHPCT | 404 | 410 | 7.2 | Sitehelp Percent of Reach Miles |
| SRC | 411 | 413 | 3 | Sitehelp Source Code |
| STA | 414 | 415 | 2 | State Abbreviation |
| STC | 416 | 417 | 2 | State Code (FIPS) |
| TUF | 418 | 424 | 7.2 | Total Utility Flow |
| TYPCDE | 425 | 425 | 1 | Type Code |
| UHF | 426 | 426 | 1 | Utility Hit Flag (Reach File) |
| VCDE | 427 | 427 | 1 | Versar Code='V'=>25K; '*'=<25K POPSVD |
| WFPC | 428 | 428 | 1 | Wellfield Precision Code |
| WFTYP | 429 | 429 | 1 | Well Type (Cassing,Artesian,Infiltration,etc.) |

| <u>Drinking Water Intakes File: BICADRIN.DBF in BICASITE.ZIP</u> | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|--------------------------|
| Field Name | Start | Stop | Length | Field Description |
| WUN | 430 | 449 | 20 | Water Utility Name |

The following table provides the DBASE III+ database field structures for the Water Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

| <u>Water Gage File: BICAGAGE.DBF in BICASITE.ZIP</u> | | | | |
|-------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| SITEID | 1 | 20 | 20 | Site Identifier |
| LATITUDE | 21 | 28 | 8 | Facility Latitude (DDMMSS) |
| LONGITUDE | 29 | 37 | 9 | Facility Longitude (DDDMMSS) |
| LAT | 38 | 48 | 11.6 | Facility Latitude (decimal degrees, (-) below equator) |
| LON | 49 | 59 | 11.6 | Facility Longitude (decimal degrees, (-) west. hem.) |
| RF1INDEX | 60 | 70 | 11 | RF1 Reach Number Location |
| RF1MILE | 71 | 76 | 6.2 | Mile Point on RF1 Reach |
| RF1DIST | 77 | 82 | 6.2 | Distance From RF1 Reach |
| RF3INDEX | 83 | 99 | 17 | RF3 Reach Number Location |
| RF3MILE | 100 | 105 | 6.2 | Mile Point on RF3 Reach |
| RF3DIST | 106 | 111 | 6.2 | Distance From RF3 Reach |
| JAN | 112 | 118 | 7.2 | Monthly Flow - January |
| FEB | 119 | 125 | 7.2 | Monthly Flow - February |
| MAR | 126 | 132 | 7.2 | Monthly Flow - March |
| APR | 133 | 139 | 7.2 | Monthly Flow - April |
| MAY | 140 | 146 | 7.2 | Monthly Flow - May |
| JUN | 147 | 153 | 7.2 | Monthly Flow - June |
| JUL | 154 | 160 | 7.2 | Monthly Flow - July |
| AUG | 161 | 167 | 7.2 | Monthly Flow - August |
| SEP | 168 | 174 | 7.2 | Monthly Flow - September |
| OCT | 175 | 181 | 7.2 | Monthly Flow - October |
| NOV | 182 | 188 | 7.2 | Monthly Flow - November |
| DEC | 189 | 195 | 7.2 | Monthly Flow - December |
| RGN | 196 | 197 | 2 | Region Code |
| AREA | 198 | 204 | 7.2 | Drainage Area (SQ.MI.) |
| DUD | 205 | 212 | 8 | Date of Update |

| Water Gage File: BICAGAGE.DBF in BICASITE.ZIP | | | | |
|------------------------------------------------------|--------------|-------------|---------------|----------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| FBCF | 213 | 213 | 1 | Flag - Basic Characteristic File ('Y') |
| FDFE | 214 | 214 | 1 | Flag - Daily Flows File ('Y') |
| FQMINV | 215 | 224 | 10 | IHS Pt. Files Index |
| GHF | 225 | 225 | 1 | Hit Flag (Reach File) |
| ICDE | 226 | 226 | 1 | Integrity Code |
| LFVEL | 227 | 233 | 7.2 | Low Flow Velocity |
| METHOD | 234 | 236 | 3 | Calculation Method Code |
| MFVEL | 237 | 243 | 7.2 | Mean Flow Velocity |
| MNFLO | 244 | 250 | 7.2 | USGS Mean Annual Flow |
| NME | 251 | 298 | 48 | Station Name |
| SHLAT | 299 | 304 | 6 | Sitehelp Latitude (DDMMSS) |
| SHLNG | 305 | 311 | 7 | Sitehelp Longitude (DDDMMSS) |
| SHMILES | 312 | 318 | 7.2 | Sitehelp Miles |
| SHNME | 319 | 328 | 10 | Sitehelp Source Name |
| SHPCT | 329 | 335 | 7.2 | Sitehelp Percent of Reach Miles |
| SITE | 336 | 337 | 2 | Site Location |
| SRC | 338 | 340 | 3 | Sitehelp Source Code |
| STCTY | 341 | 345 | 5 | State/County Numeric Code |
| SVTEN | 346 | 352 | 7.2 | USGS 7-10 Year Flow |
| BEG_WYR | 353 | 356 | 4 | Beginning Water Year |
| END_WYR | 357 | 359 | 4 | Ending Water Year |
| ELEV | 361 | 368 | 8.2 | Elevation (Feet) |
| WELL_DP | 369 | 376 | 8.2 | Well Depth (Feet) |

The following table provides the DBASE III+ database field structures for the Water Impoundment database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

| Water Impoundment File: BICADAMS.DBF in BICASITE.ZIP | | | | |
|-------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| SITEID | 1 | 7 | 7 | Site Identifier |
| SOURCE | 8 | 10 | 3 | Source of Data |
| ST1 | 11 | 12 | 2 | Primary State Code Abbreviation |
| STCTY1 | 13 | 17 | 5 | State/County Numeric Code |
| NAME | 18 | 47 | 30 | Official Name of Dam |
| LATITUDE | 48 | 53 | 6 | Facility Latitude (DDMMSS) |
| LONGITUDE | 54 | 60 | 7 | Facility Longitude (DDDMMSS) |
| LAT | 61 | 70 | 10.6 | Facility Latitude (decimal degrees, (-) below equator) |
| LON | 71 | 81 | 11.6 | Facility Longitude (decimal degrees, (-) west. hem.) |
| INME | 82 | 111 | 30 | Impoundment Name |
| RNME | 112 | 139 | 28 | River, Stream, or Tributary Name on Which Dam Built |
| CUSEGMI | 140 | 149 | 10 | Catalog Unit, Segment, and Segment Length |
| REGN | 150 | 151 | 2 | Water Resources Council Region Code |
| RGBSN | 152 | 155 | 4 | Water Resources Region/Basin Code |
| CU | 156 | 163 | 8 | Catalog Unit |
| SEG | 164 | 166 | 3 | Reach Segment of Dam |
| SEGL | 167 | 171 | 5.2 | Reach Segment Length |
| PURP | 172 | 172 | 1 | Major Purpose of Dam |
| | | | | I=Irrigation |
| | | | | H=Hydroelectric |
| | | | | N=Navigation |
| | | | | S=Water Supply |
| | | | | R=Recreation |
| | | | | P=Stock/Farm Pond |
| | | | | D=Debris Control |
| | | | | F=Flood Control |

| Water Impoundment File: BICADAMS.DBF in BICASITE.ZIP | | | | |
|-------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| | | | | O=Other |
| FRF3 | 173 | 189 | 17 | RF3 Reach Number Location |
| FRF3MI | 190 | 194 | 5 | Mile Point on RF3 Reach |
| PURPKEY | 195 | 195 | 1 | Purpose Key |
| PUR2 | 196 | 196 | 1 | Purpose of Dam 2 (See Above) |
| PUR3 | 197 | 197 | 1 | Purpose of Dam 3 (See Above) |
| PUR4 | 198 | 198 | 1 | Purpose of Dam 4 (See Above) |
| PUR5 | 199 | 199 | 1 | Purpose of Dam 5 (See Above) |
| PUR6 | 200 | 200 | 1 | Purpose of Dam 6 (See Above) |
| PUR7 | 201 | 201 | 1 | Purpose of Dam 7 (See Above) |
| PUR8 | 202 | 202 | 1 | Purpose of Dam 8 (See Above) |
| PUR9 | 203 | 203 | 1 | Purpose of Dam 9 (See Above) |
| PUR10 | 204 | 204 | 1 | Purpose of Dam 10 (See Above) |
| TYPDAM | 205 | 206 | 2 | Major Dam Portion Type |
| | | | | RE=Earth |
| | | | | VA=Vaulted Arch |
| | | | | CD=Buttress |
| | | | | PG=Gravity |
| | | | | ER=Rockfill |
| | | | | MV=Multi-Arch |
| | | | | OT=Other |
| YRCMP | 207 | 210 | 4 | Year Dam Completed |
| SHGT | 211 | 214 | 4 | Structural Height (Feet) |
| HHGT | 215 | 218 | 4 | Hydraulic Height (Feet) |
| VNORM | 219 | 236 | 8 | Normal Storage of Impoundment (Acre-Feet) |
| VMAX | 227 | 234 | 8 | Maximum Storage of Impoundment (Acre-Feet) |
| LCRST | 235 | 239 | 5 | Crest Length of Dam (Feet) |
| TSPL | 240 | 240 | 1 | Spillway Type |
| | | | | C=Controlled |

| Water Impoundment File: BICADAMS.DBF in BICASITE.ZIP | | | | |
|-------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| | | | | U=Uncontrolled |
| | | | | N=None |
| | | | | X=Unknown |
| WSPL | 241 | 244 | 4 | Dam Spillway Width (Feet) |
| QMAX | 245 | 251 | 7 | Maximum Spillway Discharge (CFS) |
| PINS | 252 | 258 | 7.2 | Quantity of Installed Power (Megawatts) |
| PPRO | 259 | 265 | 7.2 | Quantity of Proposed Power (Megawatts) |
| LOCK | 266 | 266 | 1 | Number of Navigational Locks |
| OWNR | 267 | 290 | 24 | Name of Impoundment Owner |
| PFOWN | 291 | 291 | 1 | Ownership Code |
| | | | | N=Non-Federal |
| | | | | G=Federal Government Agency |
| | | | | C=Corps of Engineers |
| | | | | X=Unknown |
| FEDR | 292 | 292 | 1 | Federally Regulated (Y=Yes, N=No, X=Unknown) |
| FLND | 293 | 293 | 1 | Private Dam on Federal Land (Y=Yes, N=No, X=Unknown) |
| SCSA | 294 | 294 | 1 | Type of Soil Conservation Service Assistance |
| | | | | N=No Assistance |
| | | | | T=Technical Assistance |
| | | | | F=Financial Assistance |
| | | | | B=Both Technical and Financial Assistance |
| | | | | X=Unknown |
| DHAZ | 295 | 295 | 1 | Degree of Downstream Hazard |
| | | | | 1=High (More than a Few Lives Lost; Excessive Economic Loss) |
| | | | | 2=Significant (A Few Lives Lost; Appreciable Economic Loss) |
| | | | | 3=Low (No Lives Expected Lost; Minimal Economic Loss) |
| DCITY | 296 | 319 | 24 | Nearest Downstream City |

| <u>Water Impoundment File: BICADAMS.DBF in BICASITE.ZIP</u> | | | | |
|--------------------------------------------------------------------|--------------|-------------|---------------|--------------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| POP | 320 | 326 | 7 | Population of Downstream City |
| DMILE | 327 | 331 | 5.2 | Distance of Downstream City From Dam (Miles) |
| RET | 332 | 342 | 11.2 | Retention Coefficient (Dimensionless) |
| MIX | 343 | 353 | 11.2 | Mixing Coefficient (Dimensionless) |
| SAREA | 354 | 361 | 8 | Surface Area of Impoundment (Acres) |
| SAFLG | 362 | 362 | 1 | Surface Area Flag (C=Calc., M=Measured, O=Other) |
| ILNTH | 363 | 367 | 5 | Length of Impoundment (Feet) |
| ILFLG | 368 | 368 | 1 | Impoundment Length Flag (C=Calc., M=Measured, O=Other) |
| UPKEY | 369 | 374 | 6 | Update Key (YYMMDD) |

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

| RF3 Structure File: 12345678.RF3 and 12345678.DBF in BICARF3.ZIP | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|---------------------------|
| Field Name | Start | Stop | Length | Field Description |
| CATUNIT | 1 | 8 | 8 | Cataloging Unit (CU) |
| SEGM | 9 | 12 | 4 | Segment Number (SEG) |
| MI | 13 | 17 | 5.2 | Mile Point (MI) |
| UPMI | 18 | 22 | 5.2 | Upstream Mile Pt. |
| SEQNO | 23 | 33 | 11.6 | Hydro Sequence No. |
| RFLAG | 34 | 34 | 1 | Reach Flag (0,1) |
| OWFLAG | 35 | 35 | 1 | Open Water Flag (0,1) |
| TFLAG | 36 | 36 | 1 | Terminal Flag (0,1) |
| SFLAG | 37 | 37 | 1 | Start Flag (0,1) |
| RCHTYPE | 38 | 38 | 1 | Reach Type Code |
| LEV | 39 | 40 | 2 | Stream Level |
| JUNC | 41 | 42 | 2 | Level of Downstream Reach |
| DIVERGENCE | 43 | 43 | 1 | Divergence Code |
| STARTCU | 44 | 51 | 8 | Start CU |
| STRTSG | 52 | 55 | 4 | Start SEG |
| STOPCU | 56 | 63 | 8 | Stop CU |
| STOPSG | 64 | 67 | 4 | Stop SEG |
| USDIR | 68 | 68 | 1 | Upstream Direction |
| TERMID | 69 | 73 | 5 | Terminal Stream ID |
| TRMBLV | 74 | 74 | 1 | Terminal Base Level |
| PNAME | 75 | 104 | 30 | Primary Name |
| PNMCD | 105 | 115 | 11 | Primary Name Code |
| CNAME | 116 | 145 | 30 | Complement Name |
| CNMCD | 146 | 156 | 11 | Complement Name Code |

| RF3 Structure File: 12345678.RF3 and 12345678.DBF in BICARF3.ZIP | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|--------------------------|
| Field Name | Start | Stop | Length | Field Description |
| OWNAME | 157 | 186 | 30 | Open Water Name |
| OWNMCD | 187 | 197 | 11 | Open Water Name Code |
| DSCU | 198 | 205 | 8 | Downstream CU |
| DSSEG | 206 | 209 | 4 | Downstream SEG |
| DSMI | 210 | 214 | 5.2 | Downstream MI |
| CCU | 215 | 222 | 8 | Complement CU |
| CSEG | 223 | 226 | 4 | Complement SEG |
| CMILE | 227 | 231 | 5.2 | Complement MI |
| CDIR | 232 | 232 | 1 | Complement Direction |
| ULCU | 233 | 240 | 8 | Upstream Left CU |
| ULSEG | 241 | 244 | 4 | Upstream Left SEG |
| ULMI | 245 | 249 | 5.2 | Upstream Left MI |
| URCU | 250 | 257 | 8 | Upstream Right CU |
| URSEG | 258 | 261 | 4 | Upstream Right SEG |
| URMI | 262 | 266 | 5.2 | Upstream Right MI |
| SEGL | 267 | 272 | 6.2 | Reach Length (Miles) |
| RFORGFLAG | 273 | 273 | 1 | RF Orgin flag(1,2,3) |
| ALTPNMCD | 274 | 281 | 8 | Alt. Primary Name Code |
| ALTOWNMC | 282 | 289 | 8 | Alt. OW Name Code |
| DLAT | 290 | 297 | 8.4 | Downstream Latitude |
| DLONG | 298 | 305 | 8.4 | Downstream Longitude |
| ULAT | 306 | 313 | 8.4 | Upstream Latitude |
| ULONG | 314 | 321 | 8.4 | Upstream Longitude |
| MINLAT | 322 | 329 | 8.4 | Minimum Latitude |
| MINLONG | 330 | 337 | 8.4 | Minimum Longitude |
| MAXLAT | 338 | 345 | 8.4 | Maximum Latitude |
| MAXLONG | 346 | 353 | 8.4 | Maximum Longitude |
| NDLGREC | 354 | 357 | 4 | No. of DLG Records |
| LLIKEY1 | 358 | 367 | 10 | Starting DLG LL Key1 |

| RF3 Structure File: 12345678.RF3 and 12345678.DBF in BICARF3.ZIP | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|--------------------------|
| Field Name | Start | Stop | Length | Field Description |
| LL2KEY1 | 368 | 377 | 10 | Ending DLG LL Key1 |
| LL1KEY2 | 378 | 387 | 10 | Starting DLG LL Key2 |
| LL2KEY2 | 388 | 497 | 10 | Ending DLG LL Key2 |
| LL1KEY3 | 398 | 407 | 10 | Starting DLG LL Key3 |
| LL2KEY3 | 408 | 417 | 10 | Ending DLG LL Key3 |
| LL1KEY4 | 418 | 427 | 10 | Starting DLG LL Key4 |
| LL2KEY4 | 428 | 437 | 10 | Ending DLG LL Key4 |
| LL1KEY5 | 438 | 447 | 10 | Starting DLG LL Key5 |
| LL2KEY5 | 448 | 457 | 10 | Ending DLG LL Key5 |
| LL1KEY6 | 458 | 467 | 10 | Starting DLG LL Key6 |
| LL2KEY6 | 468 | 477 | 10 | Ending DLG LL Key6 |
| LL1KEY7 | 478 | 487 | 10 | Starting DLG LL Key7 |
| LL2KEY7 | 488 | 597 | 10 | Ending DLG LL Key7 |
| LL1KEY8 | 498 | 507 | 10 | Starting DLG LL Key8 |
| LL2KEY8 | 508 | 517 | 10 | Ending DLG LL Key8 |
| LL1KEY9 | 518 | 527 | 10 | Starting DLG LL Key9 |
| LL2KEY9 | 528 | 537 | 10 | Ending DLG LL Key9 |
| LL1KEY10 | 538 | 547 | 10 | Start DLG LL Key 10 |
| LL2KEY10 | 548 | 557 | 10 | Ending DLG LL Key10 |
| LN1AT2 | 558 | 561 | 4 | DLG Line Attr. 1 |
| LN2AT2 | 562 | 565 | 4 | DLG Line Attr. 2 |
| AREA1 | 566 | 569 | 4 | DLG Area ID 1 |
| AREA2 | 570 | 573 | 4 | DLG Area ID 2 |
| AR1AT2 | 574 | 577 | 4 | DLG Area Attribute |
| AR1AT4 | 578 | 581 | 4 | DLG Area Attribute |
| AR2AT2 | 582 | 585 | 4 | DLG Area Attribute |
| AR2AT4 | 586 | 589 | 4 | DLG Area Attribute |
| UPDATE1 | 590 | 595 | 6 | Update Date #1 (mmddyy) |
| UPDTC1 | 596 | 603 | 8 | Update Type Code #1 |

| RF3 Structure File: 12345678.RF3 and 12345678.DBF in BICARF3.ZIP | | | | |
|-------------------------------------------------------------------------|--------------|-------------|---------------|-------------------------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| UPDTSRC1 | 604 | 611 | 8 | Update Source #1 |
| UPDATE2 | 612 | 617 | 6 | Update Date #2 (mmddyy) |
| UPDTCDC2 | 618 | 625 | 8 | Update Type Code#2 |
| UPDTSRC2 | 626 | 633 | 8 | Update Source #2 |
| UPDATE3 | 634 | 639 | 6 | Update Date #3 (mmddyy) |
| UPDTCDC3 | 640 | 647 | 8 | Update Type Code #3 |
| UPDTSRC3 | 648 | 655 | 8 | Update Source #3 |
| DIVCU | 656 | 663 | 8 | Divergent CU |
| DIVSEG | 664 | 667 | 4 | Divergent SEG |
| DIVMILE | 668 | 672 | 5.2 | Divergent MI |
| DLGID | 673 | 678 | 6 | DLG Number Special Use For Internal State Codes |
| FILLER | 678 | 685 | 7 | Filler: Future Use |

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

| <u>RF3 Trace File: 12345678.TRC in BICARF3.ZIP</u> | | | | |
|-----------------------------------------------------------|--------------|-------------|---------------|-------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| (Header Record) | | | | |
| CATUNIT | 1 | 8 | 8 | Cataloging Unit |
| SEGM | 9 | 12 | 4 | Segment Number |
| MI | 13 | 17 | 5.2 | Mile Point |
| NPTS | 18 | 21 | 4 | Number of Lat/Lon Coordinates |
| (Coordinate Record) | | | | |
| LATITUDE | 1 | 8 | 8.4 | Latitude in Decimal |
| LONGITUDE | 9 | 16 | 8.4 | Longitude in Decimal |
| FILLER | 17 | 21 | 5 | |

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) catalog unit boundary file. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual catalog unit boundary and is suitable for conversion into a variety of Geographic Information System formats.

| Catalog Unit Boundary File: 12345678.CUB in BICARF3.ZIP |
|------------------------------------------------------------------------------|
| |
| First Line = Catalog Unit Number (8 Characters) |
| Subsequent Lines: |
| L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS, ... |
| |
| Example: |
| |
| 02070010 |
| L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633, |
| L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416, |
| L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123, |
| ... |
| L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003, |
| L=391107,L=0770922, |
| |
| There can be as many as four latitude/longitude pairs per line. |

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

| <u>Encyclopedia File: WRD File For Internal Use Only</u> | | | | |
|-----------------------------------------------------------------|--------------|-------------|---------------|------------------------------|
| Field Name | Start | Stop | Length | Field Description |
| PARM | 1 | 5 | 5 | STORET Parameter Code |
| PARMNAME | 6 | 45 | 40 | Parameter Name |
| MINVAL | 46 | 61 | 16.7 | Minimum Value |
| MINVALPARK | 62 | 65 | 4 | Park Unit with Minimum Value |
| MAXVAL | 66 | 71 | 16.7 | Maximum Value |
| MAXVALPARK | 72 | 75 | 4 | Park Unit with Maximum Value |

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

| STORET Code | STORET Parameter Description | High Value | Low Value |
|-------------|---------------------------------------------------|------------|-----------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | 37.0 | -2.0 |
| 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | 98.0 | 31.0 |
| 00020 | TEMPERATURE, AIR (DEGREES CENTIGRADE) | 52.0 | -40.0 |
| 00021 | TEMPERATURE, AIR (DEGREES FAHRENHEIT) | 125.0 | -40.0 |
| 00026 | TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE | 1990.9 | 1977.0 |
| 00032 | CLOUD COVER (PERCENT) | 101.0 | 0.0 |
| 00035 | WIND VELOCITY (MILES PER HOUR) | 85.0 | 0.0 |
| 00036 | WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE) | 361.0 | 0.0 |
| 00045 | PRECIPITATION, TOTAL (INCHES PER DAY) | 15.0 | 0.0 |
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | 1500.0 | 0.0 |
| 00074 | TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION | 101.0 | 0.0 |
| 00075 | TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE) | 500.0 | 0.0 |
| 00076 | TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT) | 1000.0 | 0.0 |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | 600.0 | 0.0 |
| 00080 | COLOR (PLATINUM-COBALT UNITS) | 500.0 | 0.0 |
| 00081 | COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS | 500.0 | 0.0 |
| 00085 | ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE) | 250.0 | 0.0 |
| 00094 | SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C) | 60000.0 | 1.0 |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | 60000.0 | 1.0 |
| 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L) | 30.0 | 0.0 |

| STORET Code | STORET Parameter Description | High Value | Low Value |
|-------------|--------------------------------------------------|------------|-----------|
| 00300 | OXYGEN, DISSOLVED (MG/L) | 30.0 | 0.0 |
| 00301 | OXYGEN, DISSOLVED, PERCENT OF SATURATION% | 200.0 | 0.0 |
| 00310 | BOD, 5 DAY, 20 DEG C (MG/L) | 150.0 | 0.0 |
| 00335 | COD, .025N K2CR2O7 (MG/L) | 1000.0 | 0.0 |
| 00340 | COD, .25N K2CR2O7 (MG/L) | 1000.0 | 0.0 |
| 00365 | CHLORINE DEMAND, 15 MINUTE (MG/L) | 15.0 | 0.0 |
| 00400 | PH (STANDARD UNITS) | 12.0 | 0.9 |
| 00403 | PH, LAB, STANDARD UNITS, (STANDARD UNITS) | 12.0 | 0.9 |
| 00405 | CARBON DIOXIDE (MG/L AS CO2) | 100.0 | 0.0 |
| 00406 | PH, FIELD (STANDARD UNITS) | 12.0 | 0.9 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | 1000.0 | 0.0 |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 750.0 | 0.0 |
| 00435 | ACIDITY, TOTAL (MG/L AS CaCO3) | 1000.0 | 0.0 |
| 00436 | ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CaCO3) | 1000.0 | 0.0 |
| 00437 | ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CaCO3) | 750.0 | 0.0 |
| 00440 | BICARBONATE ION (MG/L AS HCO3) | 450.0 | 0.0 |
| 00445 | CARBONATE ION (MG/L AS CO3) | 100.0 | 0.0 |
| 00480 | SALINITY - PARTS PER THOUSAND | 40.0 | 0.0 |
| 00500 | RESIDUE, TOTAL (MG/L) | 15000.0 | 0.0 |
| 00505 | RESIDUE, TOTAL VOLATILE (MG/L) | 10000.0 | 0.0 |
| 00510 | RESIDUE, TOTAL FIXED (MG/L) | 10000.0 | 0.0 |
| 00515 | RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L) | 20000.0 | 0.0 |
| 00520 | RESIDUE, VOLATILE FILTRABLE (MG/L) | 10000.0 | 0.0 |
| 00525 | RESIDUE, FIXED FILTRABLE (MG/L) | 10000.0 | 0.0 |
| 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | 10000.0 | 0.0 |
| 00535 | RESIDUE, VOLATILE NONFILTRABLE (MG/L) | 10000.0 | 0.0 |
| 00540 | RESIDUE, FIXED NONFILTRABLE (MG/L) | 10000.0 | 0.0 |
| 00545 | RESIDUE, SETTLEABLE (ML/L) | 1000.0 | 0.0 |
| 00546 | RESIDUE, SETTLEABLE (MG/L) | 1000.0 | 0.0 |

| STORET Code | STORET Parameter Description | High Value | Low Value |
|-------------|------------------------------------------------------|------------|-----------|
| 00550 | OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L) | 250.0 | 0.0 |
| 00600 | NITROGEN, TOTAL (MG/L AS N) | 100.0 | 0.0 |
| 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 15.0 | 0.0 |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 25.0 | 0.0 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 20.0 | 0.0 |
| 00615 | NITRITE NITROGEN, TOTAL (MG/L AS N) | 5.0 | 0.0 |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 50.0 | 0.0 |
| 00625 | NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) | 50.0 | 0.0 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 55.0 | 0.0 |
| 00635 | NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N) | 70.0 | 0.0 |
| 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 30.0 | 0.0 |
| 00653 | PHOSPHATE, TOTAL SOLUBLE (MG/L) | 30.0 | 0.0 |
| 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 30.0 | 0.0 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 30.0 | 0.0 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 10.0 | 0.0 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 10.0 | 0.0 |
| 00680 | CARBON, TOTAL ORGANIC (MG/L AS C) | 100.0 | 0.0 |
| 00681 | CARBON, DISSOLVED ORGANIC (MG/L AS C) | 100.0 | 0.0 |
| 00685 | CARBON, TOTAL INORGANIC (MG/L AS C) | 100.0 | 0.0 |
| 00690 | CARBON, TOTAL (MG/L AS C) | 150.0 | 0.0 |
| 00720 | CYANIDE, TOTAL (MG/L AS CN) | 10.0 | 0.0 |
| 00745 | SULFIDE, TOTAL (MG/L AS S) | 1500.0 | 0.0 |
| 00746 | SULFIDE, DISSOLVED (MG/L AS S) | 1500.0 | 0.0 |
| 00760 | SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L) | 150.0 | 0.0 |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 5000.0 | 0.0 |
| 00910 | CALCIUM (MG/L AS CaCO3) | 3000.0 | 0.0 |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | 1000.0 | 0.0 |
| 00916 | CALCIUM, TOTAL (MG/L AS Ca) | 1000.0 | 0.0 |
| 00920 | MAGNESIUM (MG/L AS CaCO3) | 3000.0 | 0.0 |

| STORET Code | STORET Parameter Description | High Value | Low Value |
|--------------------|-------------------------------------|-------------------|------------------|
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | 1000.0 | 0.0 |
| 00927 | MAGNESIUM, TOTAL (MG/L AS MG) | 1000.0 | 0.0 |
| 00929 | SODIUM, TOTAL (MG/L AS NA) | 5000.0 | 0.0 |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | 5000.0 | 0.0 |
| 00931 | SODIUM ADSORPTION RATIO | 50.0 | 0.0 |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | 175.0 | 0.0 |
| 00937 | POTASSIUM, TOTAL MG/L AS K) | 175.0 | 0.0 |
| 00940 | CHLORIDE, TOTAL IN WATER, (MG/L) | 22000.0 | 0.0 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 2500.0 | 0.0 |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | 2500.0 | 0.0 |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | 15.0 | 0.0 |
| 00951 | FLUORIDE, TOTAL (MG/L AS F) | 15.0 | 0.0 |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | 2000.0 | 0.0 |
| 00956 | SILICA, TOTAL (MG/L AS SI02) | 2000.0 | 0.0 |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 5000.0 | 0.0 |
| 01002 | ARSENIC, TOTAL (UG/L AS AS) | 5000.0 | 0.0 |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | 2000.0 | 0.0 |
| 01007 | BARIUM, TOTAL (UG/L AS BA) | 2000.0 | 0.0 |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 2000.0 | 0.0 |
| 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 2000.0 | 0.0 |
| 01020 | BORON, DISSOLVED (UG/L AS B) | 5000.0 | 0.0 |
| 01022 | BORON, TOTAL (UG/L AS B) | 5000.0 | 0.0 |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 500.0 | 0.0 |
| 01027 | CADMIUM, TOTAL (UG/L AS CD) | 500.0 | 0.0 |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 2000.0 | 0.0 |
| 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 2000.0 | 0.0 |
| 01033 | CHROMIUM, TRI-VAL (UG/L AS CR) | 2000.0 | 0.0 |
| 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 2000.0 | 0.0 |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 2000.0 | 0.0 |

| STORET Code | STORET Parameter Description | High Value | Low Value |
|-------------|--------------------------------------------------------|------------|-----------|
| 01042 | COPPER, TOTAL (UG/L AS CU) | 5000.0 | 0.0 |
| 01045 | IRON, TOTAL (UG/L AS FE) | 56000.0 | 0.0 |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | 56000.0 | 0.0 |
| 01047 | IRON, FERROUS (UG/L AS FE) | 56000.0 | 0.0 |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 1000.0 | 0.0 |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 1000.0 | 0.0 |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | 5000.0 | 0.0 |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | 5000.0 | 0.0 |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 2000.0 | 0.0 |
| 01067 | NICKEL, TOTAL (UG/L AS NI) | 2000.0 | 0.0 |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 5000.0 | 0.0 |
| 01077 | SILVER, TOTAL (UG/L AS AG) | 5000.0 | 0.0 |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 25000.0 | 0.0 |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 25000.0 | 0.0 |
| 01105 | ALUMINUM, TOTAL (UG/L AS AL) | 20000.0 | 0.0 |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | 20000.0 | 0.0 |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 100.0 | 0.0 |
| 01501 | ALPHA, TOTAL | 200.0 | 0.0 |
| 01503 | ALPHA, DISSOLVED | 75.0 | 0.0 |
| 01505 | ALPHA, SUSPENDED | 150.0 | 0.0 |
| 03501 | BETA, TOTAL | 3500.0 | 0.0 |
| 03503 | BETA, DISSOLVED | 3000.0 | 0.0 |
| 03505 | BETA, SUSPENDED | 1500.0 | 0.0 |
| 09503 | RADIUM 226, DISSOLVED | 500.0 | 0.0 |
| 13501 | STRONTIUM 90, TOTAL | 500.0 | 0.0 |
| 22703 | URANIUM, NATURAL, DISSOLVED | 500.0 | 0.0 |
| 31501 | COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 35C | 24000000.0 | 0.0 |
| 31502 | COLIFORM, TOTAL, 10/ML | 24000000.0 | 0.0 |
| 31503 | COLIFORM, TOT, MEMBR FILTER, DELAYED, M-ENDO MED, 35C | 24000000.0 | 0.0 |

| STORET Code | STORET Parameter Description | High Value | Low Value |
|-------------|---------------------------------------------------------|------------|-----------|
| 31504 | COLIFORM, TOT, MEMBR FILTER, IMMED, LES ENDO AGAR, 35C | 24000000.0 | 0.0 |
| 31613 | FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR | 10000000.0 | 0.0 |
| 31615 | FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614) | 10000000.0 | 0.0 |
| 31616 | FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C | 10000000.0 | 0.0 |
| 31672 | FECAL STREPTOCOCCI, PLATE COUNT M-ENTER AGAR, 35C, 48HR | 500000.0 | 0.0 |
| 31673 | FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR | 500000.0 | 0.0 |
| 31677 | FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678) | 500000.0 | 0.0 |
| 31679 | FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR, 35C, 48H | 500000.0 | 0.0 |
| 31749 | PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS | 99999999.0 | 0.0 |
| 31751 | PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS | 99999999.0 | 0.0 |
| 32210 | CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED | 500.0 | 0.0 |
| 32211 | CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH. | 750.0 | 0.0 |
| 32212 | CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED | 1000.0 | 0.0 |
| 32214 | CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED | 200.0 | 0.0 |
| 32217 | CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED | 500.0 | 0.0 |
| 32218 | PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH. | 200.0 | 0.0 |
| 32219 | PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID | 2.0 | 0.0 |
| 32221 | CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID. | 101.0 | 0.0 |
| 32230 | CHLOROPHYLL A (MG/L) | 0.5 | 0.0 |
| 32231 | CHLOROPHYLL B (MG/L) | 0.8 | 0.0 |
| 32232 | CHLOROPHYLL C (MG/L) | 0.2 | 0.0 |
| 32234 | CHLOROPHYLL, TOTAL (A+B+C) (MG/L) | 1.0 | 0.0 |
| 32270 | CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER | 5.0 | 0.0 |
| 32730 | PHENOLICS, TOTAL, RECOVERABLE (UG/L) | 1500.0 | 0.0 |
| 38260 | METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.) | 10.0 | 0.0 |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39340 | GAMMA-BHC(LINDANE), WHOLE WATER, (UG/L) | 20.0 | 0.0 |
| 39350 | CHLORDANE(TECH MIX & METABS), WHOLE WATER, (UG/L) | 20.0 | 0.0 |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |

| STORET Code | STORET Parameter Description | High Value | Low Value |
|-------------|--------------------------------------------------|------------|-----------|
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39480 | METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39516 | PCBS IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39530 | MALATHION IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39540 | PARATHION IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39600 | METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 39782 | LINDANE IN WHOLE WATER SAMPLE (UG/L) | 20.0 | 0.0 |
| 50060 | CHLORINE, TOTAL RESIDUAL (MG/L) | 5.0 | 0.0 |
| 60050 | ALGAE, TOTAL (CELLS/ML) | 700000.0 | 0.0 |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L) | 4000.0 | 0.0 |
| 70505 | PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P) | 10.0 | 0.0 |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 10.0 | 0.0 |
| 71850 | NITRATE NITROGEN, TOTAL (MG/L AS NO3) | 65.0 | 0.0 |
| 71886 | PHOSPHORUS, TOTAL, AS PO4 - (MG/L) | 30.0 | 0.0 |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 10.0 | 0.0 |
| 71895 | MERCURY, SUSPENDED (UG/L AS HG) | 10.0 | 0.0 |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 10.0 | 0.0 |
| 74010 | IRON, TOTAL (MG/L AS FE) | 56000.0 | 0.0 |

Appendix D

STORET Administrative Parameters

| STORET Code | Description of STORET Administrative Parameters |
|--------------------|--------------------------------------------------------|
| 00022 | LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS |
| 00026 | TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE |
| 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE |
| 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE |
| 00029 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE |
| 00063 | SAMPLING POINTS, NUMBER OF IN A CROSS SECTION |
| 00073 | SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH |
| 00111 | RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI |
| 00115 | SAMPLE TREATMENT CODE (1=RAW,2=TREATED) |
| 00116 | INTENSIVE SURVEY IDENTIFICATION NUMBER |
| 00145 | TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY |
| 01273 | TOTAL ACID PRIORITY POLLUTANTS MG/L |
| 01274 | TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L |
| 01275 | TOTAL VOLATILE PRIORITY POLLUTANTS MG/L |
| 01365 | ANALYSIS DATE (DIOXIN) (YYMMDD) |
| 04177 | SAMPLE STABILIZATION, RECOVERY TEST CODE |
| 04178 | FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE |
| 04179 | SAMPLE STATION LOCKED CODE |
| 04180 | CONDITION OF STATION SITE CODE |
| 04181 | LABORATORY QA/QC PLAN CONFIDENCE CODE |
| 04182 | SAMPLE TYPE CODE |
| 04183 | SAMPLE REMARKS CODE |
| 30333 | BAG MESH SIZE, BEDLOAD SAMPLER, MM |
| 34772 | NPDES NUMBER, CROSS REFERENCE CODE |
| 34785 | GAGE TYPE, METHOD CODE |

| STORET Code | Description of STORET Administrative Parameters |
|--------------------|--------------------------------------------------------|
| 45575 | GC MAKE AND MODEL INFORMATION CODE |
| 45576 | GC DETECTOR TYPE CODE |
| 45577 | GC COLUMN TYPE CODE |
| 45580 | METHOD OF ANALYSIS CODE |
| 45581 | LABORATORY LOCATION CODE |
| 46107 | SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION) |
| 46390 | TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F |
| 46396 | PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO |
| 46397 | PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO |
| 47001 | PERMIT EXPIRATION DATE (JULIAN CALENDAR) |
| 47044 | OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE |
| 47460 | SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER |
| 47477 | COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE |
| 70231 | CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW) |
| 71999 | SAMPLE PURPOSE CODE |
| 72032 | NUMBER OF SPILLWAY GATES OPEN |
| 73672 | DATE OF ANALYSIS YYMMDD |
| 73673 | DATE OF EXTRACTION YYMMDD |
| 74031 | GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION |
| 74032 | GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT |
| 74033 | GRANT, FEDERAL, OTHER THAN PL 660 GRANT |
| 74034 | GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ |
| 74035 | GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ |
| 74036 | GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION |
| 74037 | GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES |
| 74038 | GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES |
| 74039 | PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY |
| 74040 | SURVEY NUMBER YYMMNO |
| 74041 | STORET STORAGE TRANSACTION DATE YR/MO/DAY |

| STORET Code | Description of STORET Administrative Parameters |
|--------------------|--------------------------------------------------------|
| 74050 | RADIOACTIVITY, GENERAL (PERMIT) |
| 74051 | ALGICIDES, GENERAL (PERMIT) |
| 74052 | CHLORINATED HYDROCARBONS, GENERAL (PERMIT) |
| 74053 | PESTICIDES, GENERAL (PERMIT) |
| 74056 | COLIFORM, TOTAL, GENERAL (PERMIT) |
| 74065 | STREAM FLOW CLASS |
| 74066 | ANNUAL RUNOFF |
| 74067 | SOIL CLASSIFICATION |
| 74068 | WATER QUALITY DESIGNATED USE CLASSIFICATION (IA) |
| 74100 | PRIMARY 1972 SIC CODE |
| 74101 | SECONDARY 1972 SIC CODE |
| 74102 | SECONDARY 1972 SIC CODE |
| 74103 | SECONDARY 1972 SIC CODE |
| 74200 | SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB. |
| 74205 | LAND RESOURCE AREA (IOWA) |
| 74206 | SOIL EROSION POTENTIAL (IOWA) |
| 74209 | WATER QUALITY INDEX - STATE OF ILLINOIS, EPA |
| 74210 | FOREST STREAM WATER QUALITY INDEX CALC. NUMBER |
| 74990 | FISH SPECIES NUMERIC CODE - F&W SERVICE |
| 74995 | ANATOMY CODE |
| 75000 | SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.) |
| 81028 | WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY) |
| 82258 | WATER CLASSIFICATION CODE (1-9) CODE |
| 82292 | DATA RELAY GROUND STATION SOURCE NODE CODE, CODE |
| 82309 | CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE |
| 82310 | DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES |
| 82373 | FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE |
| 82519 | DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE |
| 82562 | NARRATIVE REQUIREMENT EXCEEDANCES INTEGER |

| STORET Code | Description of STORET Administrative Parameters |
|--------------------|--------------------------------------------------------|
| 82576 | DAILY EXCURSION TIME, WATER MIN |
| 82577 | MONTHLY EXCURSION TIME, WATER TOTAL MIN |
| 82578 | DAY/MAXIMUM EXCURSION TIME, WATER MIN |
| 82579 | CODE NUMBER FOR PERSON COLLECTING SAMPLE |
| 84002 | CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE |
| 84003 | WATER SHED ID NUMBER (IOWA) |
| 84005 | FISH SPECIES CODE-FISH & WILDLIFE SER |
| 84006 | OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM |
| 84010 | PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM |
| 84011 | CONFIDENCE CODE FOR GLC CONFIRMATION CODE |
| 84012 | PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE |
| 84013 | SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS |
| 84027 | CODE NUMBER FOR AGENCY COLLECTING SAMPLE |
| 84028 | CODE NO FOR AGENCY ANALYZING SAMPLE |
| 84029 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD |
| 84033 | EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE |
| 84034 | EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB |
| 84035 | EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE |
| 84036 | EGD INDUSTRIAL CATEGORY NUMERIC CODE |
| 84037 | EGD INDUSTRIAL CATEGORY NAME ALPHA CODE |
| 84038 | EGD LABORATORY NUMERIC CODE |
| 84039 | EGD LABORATORY NAME ALPHA CODE |
| 84040 | EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE |
| 84041 | EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE |
| 84042 | EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE |
| 84043 | EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE |
| 84044 | EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE |
| 84045 | EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE |
| 84046 | EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE |

| STORET Code | Description of STORET Administrative Parameters |
|------------------------|--------------------------------------------------------|
| 84047 | EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE |
| 84048 | EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE |
| 84049 | EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE |
| 84050 | EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE |
| 84051 | EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE |
| 84052 | EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE |
| 84053 | SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE |
| 84054 | LITHOLOGY ALPHA-NUMERIC CODE |
| 84055 | AVAILABLE LOGS ALPHA-NUMERIC CODE |
| 84056 | WATER USE CATEGORY ALPHA-NUMERIC CODE |
| 84057 | INSPECTION TYPE ALPHA-NUMERIC CODE |
| 84058 | HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE |
| 84059 | WELL OWNERSHIP ALPHA-NUMERIC CODE |
| 84060 | TOPOGRAPHY ALPHA-NUMERIC CODE |
| 84061 | WELL USE ALPHA-NUMERIC CODE |
| 84062 | MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE |
| 84063 | DRILLING METHOD ALPHA-NUMERIC CODE |
| 84064 | WELL DATA AVAILABILITY ALPHA-NUMERIC CODE |
| 84065 | PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE |
| 84067 | NATURE OF MONITORING ALPHA-NUMERIC CODE |
| 84073 | REPLACES EXISTING WELL ALPHA-NUMERIC CODE |
| 84074 | AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE |
| 84075 | WELL PERMIT NUMBER ALPHA-NUMERIC CODE |
| 84076 | TSD MONITORING WELL TYPE ALPHA CODE |
| 84077 | TSD MONITORING WELL SAMPLING METHOD ALPHA CODE |
| 84083 | POLLUTION VERIFICATION ALPHA CODE |
| 84084 | WELL SAMPLE PURPOSE ALPHA CODE |
| 84090 | SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE |
| 84091 | INFILTRATION DATE/BEGINNING 'YYMMDD' |

| STORET Code | Description of STORET Administrative Parameters |
|------------------------|--------------------------------------------------------|
| 84092 | INFILTRATION DATE/ENDING 'YYMMDD' |
| 84093 | ENFORCEMENT FORM #2-C, DATA IDENTIFICATION CODE |
| 84102 | SAMPLE SPECIES-SUB ID ALPHA CODE |
| 84103 | DIOXIN LABORATORY ALPHA CODE |
| 84104 | DIOXIN STUDY ALPHA CODE |
| 84112 | SOURCE OF GEOHYDROLOGIC DATA CODE |
| 84119 | SOURCE OF EVACUATION DATA CODE |
| 84121 | REGULATING AGENCY CODE |
| 84122 | SAMPLE PURPOSE CODE |
| 84126 | SOURCE OF DEPTH DATA CODE |
| 84127 | METHOD OF DEPTH MEASUREMENT CODE |
| 84128 | SOURCE OF WATER-LEVEL DATA CODE |
| 84129 | DATA QUALITY |
| 84141 | LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE |
| 84142 | LAKE, RECREATIONAL SUITABILITY @ SMPL TIME, 1-5, CODE |
| 84164 | SAMPLER TYPE, CODE |
| 85300 | PROBLEM CODE NES SURVEY |
| 85327 | WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES |
| 85332 | CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES |
| 85553 | WELL COMPLETION DATE (MONTH/YEAR) |
| 85554 | WELL WORKOVER DATE, LATEST (MONTH/YEAR) |

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|-------------|------------------------------------------------------------------------|
| 00001 | X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.) |
| 00002 | X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.) |
| 00003 | SAMPLING STATION LOCATION, VERTICAL (FEET) |
| 00005 | X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH) |
| 00006 | DISTANCE FROM LOCATION IN X MILES |
| 00007 | DISTANCE FROM LOCATION IN Y MILES |
| 00008 | NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE |
| 00009 | X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM) |
| 00027 | CODE NO FOR AGENCY COLLECTING SAMPLE |
| 00028 | CODE NO FOR AGENCY ANALYZING SAMPLE |
| 00033 | WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677) |
| 00037 | WIND FORCE (BEAUFORT UNITS) |
| 00038 | WIND DIRECTION (WMO CODES 0885 + 0887) |
| 00041 | WEATHER (WMO CODE 4501) |
| 00042 | ALTITUDE IN FEET ABOVE MEAN SEA LEVEL |
| 00043 | CLOUD TYPE (WMO CODE 0500) |
| 00044 | CLOUD AMOUNT (WMO CODE 2700) |
| 00047 | TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG) |
| 00048 | TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT) |
| 00049 | SURFACE AREA IN SQUARE MILES |
| 00050 | EVAPORATION, TOTAL (INCHES PER DAY) |
| 00051 | SURFACE AREA IN SQUARE FEET |
| 00053 | SURFACE AREA, ACRES |
| 00054 | RESERVOIR STORAGE - ACRE FEET |
| 00063 | SAMPLING POINTS, NUMBER OF IN A CROSS SECTION |
| 00067 | TIDE STAGE |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|--------------------|-------------------------------------------------------------------------------|
| 00069 | SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8') |
| 00097 | SAMPLING STATION LOCATION, VERTICAL (FEET) |
| 00098 | SAMPLING STATION LOCATION, VERTICAL (METERS) |
| 00111 | RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI |
| 00115 | SAMPLE TREATMENT CODE (1=RAW,2=TREATED) |
| 01300 | OIL-GREASE (SEVERITY) |
| 01305 | DETERGENT SUDS (SEVERITY) |
| 01310 | GAS BUBBLES (SEVERITY) |
| 01315 | SLUDGE, FLOATING (SEVERITY) |
| 01320 | GARBAGE, FLOATING (SEVERITY) |
| 01325 | ALGAE, FLOATING MATS (SEVERITY) |
| 01330 | ODOR, ATMOSPHERIC (SEVERITY) |
| 01331 | TASTE (SEVERITY) |
| 01335 | SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY) |
| 01340 | FISH, DEAD (SEVERITY) |
| 01345 | DEBRIS, FLOATING (SEVERITY) |
| 01350 | TURBIDITY (SEVERITY) |
| 01351 | FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE |
| 01355 | ICE COVER, FLOATING OR SOLID (SEVERITY) |
| 03595 | BIOASSAY (96 HR), EFFLUENT, TOTAL CODE |
| 03596 | BIOASSAY (48 HR), EFFLUENT, TOTAL CODE |
| 03597 | BIOASSAY (24 HR), EFFLUENT, TOTAL CODE |
| 03598 | TOXICITY, EFFLUENT, TOTAL CODE |
| 03599 | TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE |
| 03600 | TOXICITY, TROUT, EFFLUENT, TOTAL CODE |
| 03601 | TOXICITY, SAND DOLLAR, EFFLUENT CODE |
| 03602 | BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE |
| 03603 | SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE |
| 03605 | FLOW METER CALIBRATION, WATER CODE |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|--------------------|-------------------------------------------------------------------------------|
| 03717 | ONCORHYNCHUS MYKISS, WATER CODE |
| 04117 | TETHER LINE USED FOR COLLECTING SAMPLE CODE |
| 04160 | HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE |
| 04161 | HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE |
| 04162 | AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE |
| 04163 | AROMATIC, PURGEABLE, SCAN, SLUDGE CODE |
| 04164 | PHENOLIC, TOTAL, SCAN, EFFLUENT CODE |
| 04165 | PHENOLIC, TOTAL, SCAN, SLUDGE CODE |
| 04166 | PCB, TOTAL, SCAN, EFFLUENT CODE |
| 04167 | PCB, TOTAL, SCAN, SLUDGE CODE |
| 04174 | FREE LIQUIDS IN SEWAGE SLUDGE CODE |
| 34765 | AVIAN NUMERICAL SPECIES CODE (BIRDS) |
| 34766 | MAMMALIAN NUMERICAL SPECIES CODE |
| 34771 | MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE |
| 34773 | ODOR, AMBIENT WATER CODE |
| 34774 | FISH, INSTREAM, VISUAL SIGHTING CODE |
| 34775 | STREAMBANK CHANNEL ALTERATIONS CODE |
| 34776 | HYDRAULIC STRUCTURES, INSTREAM CODE |
| 34780 | LAND USE, ADJACENT STREAM CODE |
| 34781 | SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE |
| 34782 | STREAM STAGE TREND CODE |
| 34789 | HABITATS, TYPES SAMPLED CODE |
| 45613 | FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE |
| 45614 | SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE |
| 45615 | INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0, CODE |
| 46001 | WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT) |
| 46478 | EQUIPMENT INSPECTION, VISUAL CODE |
| 46486 | TOXICITY, ACUTE 24HR (STATIC) CERIODAPHNIA (P/F) CODE |
| 47454 | FLOW METER REVOLUTIONS NUMBER |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|------------------------|-------------------------------------------------------------------------------|
| 47455 | LATITUDE, STARTING, OF A SAMPLE TOW DDMMS |
| 47456 | LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS |
| 47457 | LATITUDE, FINISHING, OF A SAMPLE TOW DDMMS |
| 47458 | LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS |
| 47459 | LENGTH FREQUENCY NUMBER |
| 47461 | TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES |
| 47476 | DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE |
| 50044 | HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE |
| 61390 | DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE |
| 61391 | DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE |
| 61392 | DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE |
| 61393 | DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE |
| 70220 | WAVE DIRECTION (WMO CODES 0885 + 0887) |
| 70222 | WAVE HEIGHT (WMO CODE 1555) |
| 70223 | WAVE PERIOD (WMO CODE 3155) |
| 71090 | BIVALVE SPECIES CODE |
| 71500 | EQUITABILITY INDEX,BENTHIC MACROINVER CODE |
| 72000 | ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL) |
| 72001 | DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM) |
| 72002 | DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT) |
| 72003 | DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT) |
| 72004 | PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES |
| 72005 | SAMPLE SOURCE CODE (BM WELL DATA) |
| 72006 | SAMPLING CONDITION CODE (BM WELL DATA) |
| 72007 | FORMATION NAME CODE (BM WELL DATA) |
| 72017 | SERIES CODE (BM WELL DATA) |
| 72018 | SYSTEM CODE (BM WELL DATA) |
| 72111 | DIRECT READOUT GROUND STATN TRANSMIT ERROR CODE NUM |
| 74054 | FECAL STREPTOCOCCI, GENERAL (PERMIT) |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|--------------------|-------------------------------------------------------------------------------|
| 74055 | FECAL COLIFORM, GENERAL (PERMIT) |
| 80889 | ACTIVATED SLUDGE PROCESS MODIFICATION CODE |
| 81024 | DRAINAGE AREA IN SQUARE MILES (SQ. MI.) |
| 81637 | SHELLFISH SPECIES NUMERIC CODE |
| 82289 | LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE |
| 82398 | SAMPLING METHOD (CODES) |
| 82524 | STORAGE COEFFICIENT NUMERICAL CODE |
| 82923 | ATMOSPHERIC DEPOSITION TYPE, WET CODE |
| 83205 | ATMOSPHERIC DEPOSITION TYPE, BULK CODE |
| 84000 | GEOLOGIC AGE CODE (SEE USGS CATALOG) |
| 84001 | AQUIFER NAME CODE (SEE USGS CATALOG) |
| 84004 | LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM |
| 84007 | ANATOMY ALPHA CODE |
| 84008 | LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE |
| 84009 | SHELLFISH SPECIES ALPHANUMERIC CODE |
| 84014 | SPECIES SEX CODE |
| 84030 | CLOUD AMOUNT ALPHA WEATHER CODES |
| 84031 | PHYSICAL WEATHER ALPHA WEATHER CODES |
| 84032 | STREAM CONDITION ALPHA WEATHER CODES |
| 84066 | OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE |
| 84068 | SERIES CODE ALPHA-NUMERIC CODE |
| 84069 | FORMATION CODE ALPHA-NUMERIC CODE |
| 84070 | METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE |
| 84071 | WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE |
| 84072 | WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE |
| 84078 | GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE |
| 84079 | BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE |
| 84080 | BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE |
| 84081 | YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|------------------------|-------------------------------------------------------------------------------|
| 84082 | SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE |
| 84085 | ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE |
| 84086 | MACROINVERTEBRATE SPECIES NUMERIC CODE |
| 84087 | MACROINVERTEBRATE HABITAT CODE |
| 84088 | BIOLOGY 1 MACROINVERTEBRATE CODE |
| 84089 | BIOLOGY 2 MACROINVERTEBRATE CODE |
| 84094 | PHYTOPLANKTON SPECIES CODE, NUMERIC |
| 84095 | PHYTOPLANKTON SPECIES CODE, ALPHA |
| 84096 | SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE |
| 84097 | LAGOON MOUTH CONDITION CODE |
| 84098 | COLOR OF NON-PLANKTONIC ALGAE CODE |
| 84099 | WATER - RELATIVE WATER LEVEL CODE |
| 84100 | SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE |
| 84101 | METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE |
| 84105 | OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID) |
| 84106 | EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK) |
| 84107 | AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE |
| 84108 | DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE |
| 84109 | SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE |
| 84110 | POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE |
| 84111 | LITHOLOGIC MODIFIER CODE |
| 84113 | WELL INTAKE FINISH CODE |
| 84114 | WELL CASING MATERIAL CODE |
| 84115 | TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE |
| 84116 | DRILLING FLUID CODE |
| 84117 | TYPE OF SURFACE SEAL CODE |
| 84118 | METHOD OF DEVELOPMENT CODE |
| 84120 | PACKING MATERIAL CODE |
| 84124 | METHOD OF EVACUTAION CODE |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|--------------------|-------------------------------------------------------------------------------|
| 84125 | METHOD OF WATER-LEVEL MEASUREMENT CODE |
| 84130 | OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE |
| 84131 | SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE |
| 84132 | STREAMBANK, VEGETATIVE STABILITY RATING CODE |
| 84133 | STREAMBANK, STABILITY (BANK EROSION) RATING CODE |
| 84134 | PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE |
| 84135 | STREAMSIDE, (SHORELINE) COVER RATING CODE |
| 84136 | CANOPY TYPE CODE |
| 84137 | CHANNEL STABILITY RATING CODE (E,G,F,P) CODE |
| 84138 | COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE |
| 84139 | ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE |
| 84140 | KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE |
| 84143 | WELL, PURGING CONDITION CODE |
| 84144 | WELL, SELECTION CRITERIA CODE |
| 84145 | PROJECT COMPONENT CODE |
| 84146 | LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE |
| 84147 | LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE |
| 84148 | LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE |
| 84149 | LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE |
| 84150 | HABITAT QUALITY INDEX RATING CODE |
| 84151 | AQUATIC LIFE, USE CLASSES CODE |
| 84152 | STREAM, STAGE CLASS CODE |
| 84153 | STREAMBANKS, GRAZING DAMAGE CODE |
| 84154 | CHANNEL, MAJOR ALTERATIONS CODE |
| 84155 | RIFFLE/RUNS, OCCURRENCE CODE |
| 84156 | POOL, DESCRIPTION CODE |
| 84157 | SANDBARS, LARGE, OCCURRENCE CODE |
| 84158 | LAND USE, NEAR STREAM, PREDOMINANT CODE |
| 84159 | STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|------------------------|-------------------------------------------------------------------------------|
| 84160 | STREAM, DEGRADATION RATING CODE |
| 84161 | STREAM, ORDER CODE |
| 84162 | LAND RESOURCE AREA CODE |
| 84163 | FLOW, STREAM, CLASSIFICATION CODE |
| 84165 | DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE |
| 84166 | STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE |
| 84167 | MICROSCOPIC EXAMINATION CODE |
| 84168 | AVIAN SPECIES ALPHA CODE (BIRDS) |
| 84169 | MAMMALIAN ALPHA SPECIES CODE |
| 84170 | ALPHA AGE TEXT CODE |
| 84200 | LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE |
| 84201 | NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE |
| 84202 | ALTITUDE METHOD CODE |
| 85000 | STREAM MILE, ACTUAL MILES |
| 85014 | HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION |
| 85015 | HAB., ESTIMATED ACRES THIS TYPE THIS STATION |
| 85016 | HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990 |
| 85017 | HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000 |
| 85018 | TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVL P |
| 85019 | ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD) |
| 85020 | ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD) |
| 85021 | ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD) |
| 85022 | ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD) |
| 85023 | ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD) |
| 85024 | ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE |
| 85025 | LANDOWNERS, CODES FOR ALL IN STATE OF OREGON |
| 85026 | ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION |
| 85027 | ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980 |
| 85028 | ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990 |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|--------------------|-------------------------------------------------------------------------------|
| 85029 | ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000 |
| 85030 | LAND USES, CODES FOR ALL IN STATE OF OREGON |
| 85031 | ACRES, CURRENT DEDICATED TO THIS USE THIS STATION |
| 85032 | ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980 |
| 85033 | ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990 |
| 85034 | ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA. |
| 85035 | HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER |
| 85036 | HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING |
| 85037 | HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER |
| 85038 | HAB., INDICATED ANIMAL USES THIS TYPE IN FALL |
| 85039 | HAB., INDICATED ANML USES THIS TYPE FOR WINTERING |
| 85040 | HAB., INDICATED ANML USES THIS TYPE FOR FEEDING |
| 85041 | HAB., INDICATED ANML USES TYPE FOR REARING YOUNG |
| 85042 | HAB., INDICATED BIRD USES THIS TYPE FOR NESTING |
| 85043 | HAB., INDICATED ANML USES THIS TYPE FOR SHELTER |
| 85044 | HAB., INDICATED ANML USES THIS TYPE FOR REST AREA |
| 85045 | ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML |
| 85046 | HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO. |
| 85050 | ANIMALS ARE NOT PRESENT THIS STATION |
| 85051 | ANIMALS, ONLY A FEW ARE PRESENT THIS STATION |
| 85052 | ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION |
| 85053 | ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION |
| 85070 | OWNERSHIP (.1) AND ACCESS (.2) BY YEAR |
| 85071 | PRIVATE OWNERSHIP AND ACCESS MILEAGE |
| 85072 | FEDERAL OWNERSHIP AND ACCESS MILEAGE |
| 85073 | STATE OWNERSHIP AND ACCESS MILEAGE |
| 85074 | COUNTY OWNERSHIP AND ACCESS MILEAGE |
| 85075 | CITY OWNERSHIP AND ACCESS MILEAGE |
| 85076 | WATER YEAR DATA REFERS TO |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|------------------------|-------------------------------------------------------------------------------|
| 85077 | CALENDAR YEAR DATA REFERS TO |
| 85088 | MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE |
| 85089 | MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER |
| 85090 | MAN-CAUSED CHANNEL CHANGE IN MILES |
| 85091 | STREAM BANK HABITAT DESTROYED IN MILES |
| 85092 | STREAMBED SILTED IN MILES |
| 85093 | TURBIDITY PROBLEM IN MILES |
| 85094 | SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM |
| 85095 | DURATION OF TURBIDITY PROBLEM IN MONTHS |
| 85096 | SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W |
| 85097 | NATURAL DRY CHANNEL IN MILES |
| 85098 | MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W |
| 85099 | MAN-CAUSED DRY CHANNEL IN MILES |
| 85100 | YEAR BARRIER IS PRESENT |
| 85101 | NUMBER OF NATURAL BARRIERS |
| 85102 | MILES BLOCKED BY NATURAL BARRIERS |
| 85103 | NUMBER OF NATURAL BARRIERS TO BE REMOVED |
| 85104 | NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS |
| 85105 | MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS |
| 85106 | NUMBER OF DAMS TO BE ALTERED |
| 85107 | MILES OF STREAM OCCUPIED BY IMPOUNDMENT |
| 85108 | LOWER END OF SECTION COVERED BY THIS FORM |
| 85109 | UPPER END OF SECTION COVERED BY THIS FORM |
| 85110 | LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE |
| 85111 | UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE |
| 85112 | STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE |
| 85113 | ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST |
| 85114 | ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE |
| 85116 | SQUARE YARDS OF SPAWNING AREA IN 1970 |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|------------------------|-------------------------------------------------------------------------------|
| 85117 | SQUARE YARDS OF SPAWNING AREA IN 1980 |
| 85118 | SQUARE YARDS OF SPAWNING AREA IN 1990 |
| 85119 | SQUARE YARDS OF SPAWNING AREA IN 2000 |
| 85120 | MILES OF REARING AREA IN 1970 |
| 85121 | MILES OF REARING AREA IN 1980 |
| 85122 | MILES OF REARING AREA IN 1990 |
| 85123 | MILES OF REARING AREA IN 2000 |
| 85124 | CATCH BY SPORT ANGLING IN 1970 |
| 85125 | RECREATION DAYS SPENT ANGLING IN 1970 |
| 85126 | RECREATION DAYS SPENT ANGLING IN 1980 |
| 85127 | RECREATION DAYS SPENT ANGLING IN 1990 |
| 85128 | RECREATION DAYS SPENT ANGLING IN 2000 |
| 85129 | CONTRIBUTION TO COMMERCIAL CATCH IN 1970 |
| 85130 | PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970 |
| 85131 | PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970 |
| 85132 | PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970 |
| 85133 | PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970 |
| 85134 | PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970 |
| 85146 | YEAR THIS FACTOR HAS A LIMITING EFFECT |
| 85157 | MAN DAYS OF WATER SKIING |
| 85158 | SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY |
| 85159 | MAN DAYS OF BOATING OTHER THAN ANGLING |
| 85160 | SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY |
| 85161 | MAN DAYS OF SWIMMING |
| 85162 | SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY |
| 85163 | SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT |
| 85165 | NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM |
| 85167 | NUMBER OF MONTHS PLANKTON IS A PROBLEM |
| 85168 | 1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES |

| STORET Code | Description of STORET Parameters Not Suitable for Statistical Analysis |
|------------------------|-------------------------------------------------------------------------------|
| 85169 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85170 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85171 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85172 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85173 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85174 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85175 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85176 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85177 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85178 | 1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB |
| 85179 | YEAR THIS NUMBER OF FACILITIES PRESENT |
| 85180 | NUMBER OF BOAT RAMPS |
| 85181 | NUMBER OF MOORAGES |
| 85182 | NUMBER OF PICNIC AREAS |
| 85183 | NUMBER OF CAMP AREAS |
| 85184 | NUMBER OF RESORTS |
| 85185 | YEAR THIS ZONED AREA PRESENT |
| 85186 | ACRES SET ASIDE FOR OTHER BOATING |
| 85187 | ACRES SET ASIDE FOR WATER SKIING |
| 85188 | MILES OF SHORE LOST TO ACCESS BY HOME SITES |
| 85189 | TOTAL MILES OF SHORELINE |
| 85193 | WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES |
| 85195 | CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST |
| 85333 | PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES |
| 85538 | GAMMA SCAN DATE (YR,MO,DAY) |
| 85539 | DATE OF REPORT (YR,MO,DAY) |
| 85658 | TIME NIGHT CO2 HR |
| 85661 | TIME, INTERVAL DAY CO2 HR |

Appendix F

National EPA Water Quality Criteria Summary¹

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|------------------|--------------|----------------------------|---------------------------------------------------|-------|-------------------|
| | 00070 | | | | 50 ^l | TURBIDITY, JACKSON CANDLE UNITS | JTU | Physical |
| | 00076 | | | | 50 ^l | TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS | FTU | Physical |
| 14808798 | 00154 | | 250 ^s | | | SULFATE (AS S) WHOLE WATER | MG/L | General Inorganic |
| 7782447 | 00299 | | | | 4.0 ^u | OXYGEN, DISSOLVED, ANALYSIS BY PROBE | MG/L | Dissolved Oxygen |
| 7782447 | 00300 | | | | 4.0 ^u | OXYGEN, DISSOLVED | MG/L | Dissolved Oxygen |
| | 00400 | | | | ≤6.5, ≥9.0 [#] | PH | SU | Physical |
| | 00403 | | | | ≤6.5, ≥9.0 [#] | PH, LAB | SU | Physical |
| | 00406 | | | | ≤6.5, ≥9.0 [#] | PH, FIELD | SU | Physical |

¹Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|------------------|--------------|-------|------------------------------------------------|-------|-------------------|
| 471341 | 00409 | | | | <200" | ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS | UEQ/L | General Inorganic |
| 17778880 | 00613 | | 1 | | | NITRITE NITROGEN, DISSOLVED AS N | MG/L | Nitrogen |
| 17778880 | 00615 | | 1 | | | NITRITE NITROGEN, TOTAL AS N | MG/L | Nitrogen |
| 17778880 | 00618 | | 10 | | | NITRATE NITROGEN, DISSOLVED AS N | MG/L | Nitrogen |
| 17778880 | 00620 | | 10 | | | NITRATE NITROGEN, TOTAL AS N | MG/L | Nitrogen |
| 17778880 | 00628 | | 10 | | | NITRITE + NITRATE, SUSPENDED AS N | MG/L | Nitrogen |
| 17778880 | 00630 | | 10 | | | NITRITE PLUS NITRATE, TOTAL 1 DET. | MG/L | Nitrogen |
| 17778880 | 00631 | | 10 | | | NITRITE PLUS NITRATE, DISSOLVED 1 DET. | MG/L | Nitrogen |
| 57125 | 00718 | 22 | 200 | 1.0 | | CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE | UG/L | General Inorganic |
| 57125 | 00719 | 22 | 200 | 1.0 | | CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD | UG/L | General Inorganic |
| 57125 | 00720 | 0.022 | 0.2 | 0.001 | | CYANIDE, TOTAL | MG/L | General Inorganic |
| 57125 | 00722 | 0.022 | 0.2 | 0.001 | | CYANIDE, FREE (AMENABLE TO CHLORINATION) | MG/L | General Inorganic |
| 57125 | 00723 | 22 | 200 | 1.0 | | CYANIDE, DISSOLVED STD METHOD | UG/L | General Inorganic |
| 57125 | 00724 | 22 | 200 | 1.0 | | CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER | UG/L | General Inorganic |
| 16887006 | 00940 | 860 | 250 ⁸ | | | CHLORIDE,TOTAL IN WATER | MG/L | General Inorganic |
| 16887006 | 00941 | 860 | 250 ⁸ | | | CHLORIDE, DISSOLVED IN WATER | MG/L | General Inorganic |
| 14808798 | 00945 | | 250 ⁸ | | | SULFATE, TOTAL (AS SO4) | MG/L | General Inorganic |
| 14808798 | 00946 | | 250 ⁸ | | | SULFATE, DISSOLVED (AS SO4) | MG/L | General Inorganic |
| 1332214 | 00948 | | 7000000 | | | ASBESTOS, WHOLE SAMPLE | CNT/L | General Inorganic |
| 16984488 | 00950 | | 4.0 | | | FLUORIDE, DISSOLVED AS F | MG/L | General Inorganic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|------------------------------------------------|-------|-------------------|
| 16984488 | 00951 | | 4.0 | | | FLUORIDE, TOTAL AS F | MG/L | General Inorganic |
| 7782414 | 00953 | | 4000 | | | FLUORINE, TOTAL | UG/L | General Inorganic |
| 7440382 | 00978 | 360 | 50 | 69 | | ARSENIC, TOTAL RECOVERABLE IN WATER AS AS | UG/L | Metal |
| 7782492 | 00981 | 20 | 50 | 300 | | SELENIUM, TOTAL RECOVERABLE IN WATER AS SE | UG/L | Metal |
| 7440280 | 00982 | 1400* | 2.0 | 2130* | | THALLIUM, TOTAL RECOVERABLE IN WATER AS TL | UG/L | Metal |
| 7782492 | 00990 | 20 | 50 | 300 | | SELENITE, TOTAL RECOVERABLE INORGANIC | UG/L | Metal |
| 7440382 | 00991 | 360 | 50 | 69 | | ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC | UG/L | Metal |
| 7440382 | 00995 | 360 | 50 | 69 | | ARSENIC, INORGANIC DISS | UG/L | Metal |
| 7440382 | 00996 | 360 | 50 | 69 | | ARSENIC, INORGANIC SUSP | UG/L | Metal |
| 7440382 | 00997 | 360 | 50 | 69 | | ARSENIC, INORGANIC TOT | UG/L | Metal |
| 7440417 | 00998 | 130* | 4.0 | | | BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE | UG/L | Metal |
| 7440382 | 01000 | 360 | 50 | 69 | | ARSENIC, DISSOLVED | UG/L | Metal |
| 7440382 | 01001 | 360 | 50 | 69 | | ARSENIC, SUSPENDEED | UG/L | Metal |
| 7440382 | 01002 | 360 | 50 | 69 | | ARSENIC, TOTAL | UG/L | Metal |
| 7440393 | 01005 | | 2000 | | | BARIUM, DISSOLVED | UG/L | Metal |
| 7440393 | 01006 | | 2000 | | | BARIUM, SUSPENDEED | UG/L | Metal |
| 7440393 | 01007 | | 2000 | | | BARIUM, TOTAL | UG/L | Metal |
| 7440393 | 01009 | | 2000 | | | BARIUM, TOTAL RECOVERABLE IN WATER AS BA | UG/L | Metal |
| 7440417 | 01010 | 130* | 4.0 | | | BERYLLIUM, DISSOLVED | UG/L | Metal |
| 7440417 | 01011 | 130* | 4.0 | | | BERYLLIUM, SUSPENDEED | UG/L | Metal |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------------|-------------------|--------------------|-------|-----------------------|-------|----------|
| 7440417 | 01012 | 130 ⁺ | 4.0 | | | BERYLLIUM, TOTAL | UG/L | Metal |
| 7440439 | 01025 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM, DISSOLVED | UG/L | Metal |
| 7440439 | 01026 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM, SUSPENDED | UG/L | Metal |
| 7440439 | 01027 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM, TOTAL | UG/L | Metal |
| 7440473 | 01030 | | 100 | | | CHROMIUM, DISSOLVED | UG/L | Metal |
| 7440473 | 01031 | | 100 | | | CHROMIUM, SUSPENDED | UG/L | Metal |
| 7440473 | 01032 | 16 | 100 | 1100 | | CHROMIUM, HEXAVALENT | UG/L | Metal |
| 16065831 | 01033 | 1700 ⁺ | 100 | 10300 ⁺ | | CHROMIUM, TRI-VAL | UG/L | Metal |
| 7440473 | 01034 | | 100 | | | CHROMIUM, TOTAL | UG/L | Metal |
| 7440508 | 01040 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, DISSOLVED | UG/L | Metal |
| 7440508 | 01041 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, SUSPENDED | UG/L | Metal |
| 7440508 | 01042 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, TOTAL | UG/L | Metal |
| 7439921 | 01049 | 82 ⁺ | 15 ^a | 220 | | LEAD, DISSOLVED | UG/L | Metal |
| 7439921 | 01050 | 82 ⁺ | 15 ^a | 220 | | LEAD, SUSPENDED | UG/L | Metal |
| 7439921 | 01051 | 82 ⁺ | 15 ^a | 220 | | LEAD, TOTAL | UG/L | Metal |
| 7440280 | 01057 | 1400 ⁺ | 2.0 | 2130 ⁺ | | THALLIUM, DISSOLVED | UG/L | Metal |
| 7440280 | 01058 | 1400 ⁺ | 2.0 | 2130 ⁺ | | THALLIUM, SUSPENDED | UG/L | Metal |
| 7440280 | 01059 | 1400 ⁺ | 2.0 | 2130 ⁺ | | THALLIUM, TOTAL | UG/L | Metal |
| 7440020 | 01065 | 1400 ⁺ | 100 | 75 | | NICKEL, DISSOLVED | UG/L | Metal |
| 7440020 | 01066 | 1400 ⁺ | 100 | 75 | | NICKEL, SUSPENDED | UG/L | Metal |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|--------------------|-------------------|-------------------|-------|-------------------------------------------|-------|-------------------|
| 7440020 | 01067 | 1400 ⁺ | 100 | 75 | | NICKEL, TOTAL | UG/L | Metal |
| 7440020 | 01074 | 1400 ⁺ | 100 | 75 | | NICKEL, TOTAL RECOVERABLE IN WATER AS NI | UG/L | Metal |
| 7440224 | 01075 | 4.1 ⁺ | 100 ^s | 0.12 | | SILVER, DISSOLVED | UG/L | Metal |
| 7440224 | 01076 | 4.1 ⁺ | 100 ^s | 0.12 | | SILVER, SUSPENDED | UG/L | Metal |
| 7440224 | 01077 | 4.1 ⁺ | 100 ^s | 0.12 | | SILVER, TOTAL | UG/L | Metal |
| 7440224 | 01079 | 4.1 ⁺ | 100 ^s | 0.12 | | SILVER, TOTAL RECOVERABLE IN WATER AS AG | UG/L | Metal |
| 7440508 | 01089 | 0.018 ⁺ | 1.3 ^a | 0.0029 | | COPPER AS SUSPENDED BLACK OXIDE IN WATER | MG/L | General Inorganic |
| 7440666 | 01090 | 120 ⁺ | 5000 ^s | 95 | | ZINC, DISSOLVED | UG/L | Metal |
| 7440666 | 01091 | 120 ⁺ | 5000 ^s | 95 | | ZINC, SUSPENDED | UG/L | Metal |
| 7440666 | 01092 | 120 ⁺ | 5000 ^s | 95 | | ZINC, TOTAL | UG/L | Metal |
| 7440666 | 01094 | 120 ⁺ | 5000 ^s | 95 | | ZINC, TOTAL RECOVERABLE IN WATER AS ZN | UG/L | Metal |
| 7440360 | 01095 | 88 ^p | 6.0 | 1500 ^p | | ANTIMONY, DISSOLVED | UG/L | Metal |
| 7440360 | 01096 | 88 ^p | 6.0 | 1500 ^p | | ANTIMONY, SUSPENDED | UG/L | Metal |
| 7440360 | 01097 | 88 ^p | 6.0 | 1500 ^p | | ANTIMONY, TOTAL | UG/L | Metal |
| 7440439 | 01113 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM, TOTAL RECOVERABLE IN WATER AS CD | UG/L | Metal |
| 7439921 | 01114 | 82 ⁺ | 15 ^a | 220 | | LEAD, TOTAL RECOVERABLE IN WATER AS PB | UG/L | Metal |
| 7440473 | 01118 | | 100 | | | CHROMIUM TOTAL RECOVERABLE IN WATER AS CR | UG/L | Metal |
| 7440508 | 01119 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, TOTAL RECOVERABLE IN WATER AS CU | UG/L | Metal |
| 7440280 | 01124 | 1400 [*] | 2.0 | 2130 [*] | | THALLIUM, ACID SOLUBLE, WATER, WHOLE | UG/L | Metal |
| 7440280 | 01128 | 1400 [*] | 2.0 | 2130 [*] | | THALLIUM, TOTAL RECOVERABLE <95% | UG/L | Metal |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|---------------------|--------------------|-------------------|-------|---------------------------------------------|-------|-------------------|
| 7782492 | 01145 | 20 | 50 | 300 | | SELENIUM, DISSOLVED | UG/L | Metal |
| 7782492 | 01146 | 20 | 50 | 300 | | SELENIUM, SUSPENDED | UG/L | Metal |
| 7782492 | 01147 | 20 | 50 | 300 | | SELENIUM, TOTAL | UG/L | Metal |
| 7782492 | 01167 | 20 | 50 | 300 | | SELENIUM, ACID SOLUBLE, WATER, WHOLE | UG/L | Metal |
| 18540299 | 01220 | 16 | 100 | 1100 | | CHROMIUM, HEXAVALENT, DISSOLVED | UG/L | Metal |
| 7440360 | 01268 | 88 ^p | 6.0 | 1500 ^p | | ANTIMONY (SB), WATER, TOTAL RECOVERABLE | UG/L | Metal |
| 57125 | 01291 | 22 | 200 | 1.0 | | CYANIDE, FILTERABLE, TOTAL IN WATER | UG/L | General Inorganic |
| 7440666 | 01303 | 0.120 ⁺ | 5.0 ^s | 0.095 | | ZINC, POTENTIALLY DISSOLVED WATER | MG/L | Metal |
| 7440224 | 01304 | 0.0041 ⁺ | 0.1 ^s | 0.00012 | | SILVER, POTENTIALLY DISSOLVED WATER | MG/L | Metal |
| 7440508 | 01306 | 0.018 ⁺ | 1.3 ^a | 0.0029 | | COPPER, POTENTIALLY DISSOLVED WATER | MG/L | Metal |
| 18540299 | 01307 | 0.016 | 0.1 | 1.1 | | CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED | MG/L | Metal |
| 7440382 | 01309 | 0.36 | 0.05 | 0.069 | | ARSENIC, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7440393 | 01311 | | 2.0 | | | BARIUM, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7440417 | 01312 | 0.13 [*] | 0.004 | | | BERYLLIUM, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7440439 | 01313 | 0.0039 ⁺ | 0.005 | 0.043 | | CADMIUM, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 16065831 | 01314 | 1.7 ⁺ | 0.1 | 10.3 [*] | | CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED | MG/L | Metal |
| 7439921 | 01318 | 0.082 ⁺ | 0.015 ^a | 0.220 | | LEAD, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7439976 | 01321 | 0.0024 | 0.002 | 0.0021 | | MERCURY, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7440020 | 01322 | 1.4 ⁺ | 0.1 | 0.075 | | NICKEL, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7782492 | 01323 | 0.020 | 0.050 | 0.300 | | SELENIUM, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|------------------|--------------------|-------------------|-------|-----------------------------------------------|-------|-----------------|
| 7440280 | 01324 | 1.4 [*] | 0.002 | 2.13 [*] | | THALLIUM, POTENTIALLY, DISSOLVED, WATER | MG/L | Metal |
| 7440611 | 01326 | | 0.020 ^c | | | URANIUM, POTENTIALLY DISSOLVED, WATER | MG/L | Metal |
| 7440224 | 01523 | 4.1 ⁺ | 100 ^s | 0.12 | | SILVER, IONIC | UG/L | Metal |
| 50328 | 03648 | | 0.2 | | | BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE | UG/L | General Organic |
| 122349 | 04035 | | 4.0 | | | SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE | UG/L | Pesticide |
| 10028178 | 04124 | | 20 ^r | | | TRITIUM, TOTAL, WATER | PC/ML | Radiological |
| 10028178 | 07000 | | 20000 ^r | | | TRITIUM, TOTAL | PC/L | Radiological |
| 10028178 | 07005 | | 20000 ^r | | | TRITIUM, DISSOLVED | PC/L | Radiological |
| 10028178 | 07010 | | 20000 ^r | | | TRITIUM, SUSPENDED | PC/L | Radiological |
| | 09501 | | 5.0 | | | RADIUM 226, TOTAL | PC/L | Radiological |
| | 09503 | | 5.0 | | | RADIUM 226, DISSOLVED | PC/L | Radiological |
| | 09505 | | 5.0 | | | RADIUM 226, SUSPENDED | PC/L | Radiological |
| | 11500 | | 5.0 | | | RADIUM 226 + RADIUM 228, DISSOLVED | PC/L | Radiological |
| | 11501 | | 5.0 | | | RADIUM 228, TOTAL | PC/L | Radiological |
| | 11503 | | 5.0 | | | RADIUM 226 + RADIUM 228, TOTAL | PC/L | Radiological |
| 10098972 | 13501 | | 8.0 ^r | | | STRONTIUM 90, TOTAL | PC/L | Radiological |
| 10098972 | 13503 | | 8.0 ^r | | | STRONTIUM 90, DISSOLVED | PC/L | Radiological |
| 10098972 | 13505 | | 8.0 ^r | | | STRONTIUM 90, SUSPENDED | PC/L | Radiological |
| 7782492 | 22675 | 20 | 50 | 300 | | SELENIUM, DISSOLVED ORGANIC | UG/L | Metal |
| 7782492 | 22676 | 20 | 50 | 300 | | SELENIUM, HEXAVALENT, DISSOLVED | UG/L | Metal |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|------------------|--------------|-------------------|---------------------------------------------------|-----------|-----------------|
| 7782492 | 22677 | 20 | 50 | 300 | | SELENIUM, TETRAVALENT, DISSOLVED | UG/L | Metal |
| 7440382 | 22678 | 360 | 50 | 69 | | ARSENIC, DISSOLVED ORGANIC | UG/L | Metal |
| 7440382 | 22679 | 850* | 50 | 2319* | | ARSENIC, PENTAVALENT, DISSOLVED | UG/L | Metal |
| 7440382 | 22680 | 360 | 50 | 69 | | ARSENIC, TRIVALENT, DISSOLVED | UG/L | Metal |
| 7440611 | 22703 | | 20° | | | URANIUM, NATURAL DISSOLVED | UG/L | Metal |
| 7440611 | 22705 | | 20° | | | URANIUM, NATURAL SUSPENDED | UG/L | Metal |
| 7440611 | 22706 | | 20° | | | URANIUM, TOTAL AS U308 | UG/L | Metal |
| 7440611 | 22708 | | 0.020° | | | URANIUM, NATURAL, TOTAL | MG/L | Radiological |
| 7440611 | 28011 | | 20° | | | URANIUM, NATURAL, TOTAL | UG/L | Radiological |
| 88857 | 30191 | | 7.0 | | | DINOSEB, WATER, WHOLE RECOVERABLE | UG/L | Pesticide |
| 75990 | 30200 | | 200 | | | DALAPON, WATER, WHOLE RECOVERABLE | UG/L | Pesticide |
| 106934 | 30203 | | 0.05 | | | ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE | UG/L | Pesticide |
| | 31501 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. | CFU/100ML | Bacteriological |
| | 31503 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO | CFU/100ML | Bacteriological |
| | 31504 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO | CFU/100ML | Bacteriological |
| | 31505 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506) | MPN/100ML | Bacteriological |
| | 31506 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG | MPN/100ML | Bacteriological |
| | 31507 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508) | MPN/100ML | Bacteriological |
| | 31508 | | 1.0 ⁿ | | 1000 ^b | COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG | MPN/100ML | Bacteriological |
| | 31613 | | | | 200 [^] | FECAL COLIFORM, MEMBRANE FILTER, AGAR | CFU/100ML | Bacteriological |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|------------------|--------------|------------------|---------------------------------------------------|-----------|-----------------|
| | 31614 | | | | 200 [^] | FECAL COLIFORM, MPN, TUBE CONFIGURATION | MPN/100ML | Bacteriological |
| | 31615 | | | | 200 [^] | FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614) | MPN/100ML | Bacteriological |
| | 31616 | | | | 200 [^] | FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C | CFU/100ML | Bacteriological |
| | 31617 | | | | 200 [^] | FECAL COLIFORM, MPN, EUKMAN, 44.5C (TUBE 31618) | MPN/100ML | Bacteriological |
| | 31625 | | | | 200 [^] | FECAL COLIFORM, MF, M-FC, 0.7 UM | CFU/100ML | Bacteriological |
| | 31648 | | | | 126 [^] | E. COLI, MTEC, MF | CFU/100ML | Bacteriological |
| | 31649 | | | | 33 [^] | ENTEROCOCCI, ME, MF | CFU/100ML | Bacteriological |
| 67663 | 32003 | 28900* | 100 ⁱ | | | CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL | UG/L | General Organic |
| 67663 | 32005 | 28900* | 100 ⁱ | | | CARBON CHLOROFORM EXTRACTABLES | UG/L | General Organic |
| 67663 | 32021 | 28900* | 100 ⁱ | | | CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF | UG/L | General Organic |
| 67663 | 32022 | 28900* | 100 ⁱ | | | CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF | UG/L | General Organic |
| 75274 | 32101 | | 100 ⁱ | | | BROMODICHLOROMETHANE, WHOLE WATER | UG/L | General Organic |
| 56235 | 32102 | 35200* | 5.0 | 50000* | | CARBON TETRACHLORIDE, WHOLE WATER | UG/L | General Organic |
| 107062 | 32103 | 118000* | 5.0 | 113000* | | 1,2-DICHLOROETHANE,WHOLE WATER | UG/L | General Organic |
| 75252 | 32104 | | 100 ⁱ | | | BROMOFORM, WHOLE WATER | UG/L | General Organic |
| 124481 | 32105 | | 100 ⁱ | | | DIBROMOCHLOROMETHANE, WHOLE WATER | UG/L | General Organic |
| 67663 | 32106 | 28900* | 100 ⁱ | | | CHLOROFORM, WHOLE WATER | UG/L | General Organic |
| 56235 | 32260 | 35.2* | 0.005 | 50* | | CARBON TETRACHLORIDE EXTRACTABLES | MG/L | General Organic |
| 67663 | 32270 | 28.9* | 0.1 ⁱ | | | CHLOROFORM EXTRACTABLES TOTAL | MG/L | General Organic |
| 108883 | 34010 | 17500* | 1000 | 6300* | | TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR. | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|------------------|--------------|-------|----------------------------------------------|-------|-----------------|
| 1330207 | 34020 | | 10000 | | | XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR. | UG/L | General Organic |
| 83329 | 34205 | 1700* | | 970* | | ACENAPHTHENE, TOTAL | UG/L | General Organic |
| 83329 | 34206 | 1700* | | 970* | | ACENAPHTHENE, DISSOLVED | UG/L | General Organic |
| 83329 | 34207 | 1700* | | 970* | | ACENAPHTHENE, SUSPENDED | UG/L | General Organic |
| 107028 | 34210 | 68* | | 55* | | ACROLEIN, TOTAL | UG/L | Pesticide |
| 107028 | 34211 | 68* | | 55* | | ACROLEIN, DISSOLVED | UG/L | Pesticide |
| 107028 | 34212 | 68* | | 55* | | ACROLEIN, SUSPENDED | UG/L | Pesticide |
| 107131 | 34215 | 7550* | | | | ACRYLONITRILE, TOTAL | UG/L | General Organic |
| 107131 | 34216 | 7550* | | | | ACRYLONITRILE, DISSOLVED | UG/L | General Organic |
| 107131 | 34217 | 7550* | | | | ACRYLONITRILE, SUSPENDED | UG/L | General Organic |
| 71432 | 34235 | 5300* | 5.0 | 5100* | | BENZENE, DISSOLVED | UG/L | General Organic |
| 71432 | 34236 | 5300* | 5.0 | 5100* | | BENZENE, SUSPENDED | UG/L | General Organic |
| 92875 | 34239 | 2500* | | | | BENZIDINE, DISSOLVED | UG/L | General Organic |
| 92875 | 34240 | 2500* | | | | BENZIDINE, SUSPENDED | UG/L | General Organic |
| 58899 | 34265 | 2.0 | 0.2 | 0.16 | | R-BHC (LINDANE) GAMMA, DISSOLVED | UG/L | Pesticide |
| 58899 | 34266 | 2.0 | 0.2 | 0.16 | | R-BHC (LINDANE) GAMMA, SUSPENDED | UG/L | Pesticide |
| 75252 | 34288 | | 100 ⁱ | | | BROMOFORM, DISSOLVED | UG/L | General Organic |
| 75252 | 34289 | | 100 ⁱ | | | BROMOFORM, SUSPENDED | UG/L | General Organic |
| 56235 | 34297 | 35200* | 5.0 | 50000* | | CARBON TETRACHLORIDE, DISSOLVED | UG/L | General Organic |
| 56235 | 34298 | 35200* | 5.0 | 50000* | | CARBON TETRACHLORIDE, SUSPENDED | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|------------------|--------------|-------|----------------------------------|-------|-------------------|
| 108907 | 34301 | | 100 | | | CHLOROBENZENE, TOTAL | UG/L | General Organic |
| 108907 | 34302 | | 100 | | | CHLOROBENZENE, DISSOLVED | UG/L | General Organic |
| 108907 | 34303 | | 100 | | | CHLOROBENZENE, SUSPENDED | UG/L | General Organic |
| 124481 | 34306 | | 100 ⁱ | | | CHLORODIBROMOMETHANE, TOTAL | UG/L | General Organic |
| 124481 | 34307 | | 100 ⁱ | | | CHLORODIBROMOMETHANE, DISSOLVED | UG/L | General Organic |
| 124481 | 34308 | | 100 ⁱ | | | CHLORODIBROMOMETHANE, SUSPENDED | UG/L | General Organic |
| 67663 | 34316 | 28900* | 100 ⁱ | | | CHLOROFORM, DISSOLVED | UG/L | General Organic |
| 67663 | 34317 | 28900* | 100 ⁱ | | | CHLOROFORM, SUSPENDED | UG/L | General Organic |
| 57125 | 34325 | 0.022 | 0.2 | 0.001 | | CYANIDE, SUSPENDED | MG/L | General Inorganic |
| 75274 | 34328 | | 100 ⁱ | | | DICHLOROBROMOMETHANE, DISSOLVED | UG/L | General Organic |
| 75274 | 34329 | | 100 ⁱ | | | DICHLOROBROMOMETHANE, SUSPENDED | UG/L | General Organic |
| 122667 | 34346 | 270* | | | | 1,2-DIPHENYLHYDRAZINE, TOTAL | UG/L | General Organic |
| 122667 | 34347 | 270* | | | | 1,2-DIPHENYLHYDRAZINE, DISSOLVED | UG/L | General Organic |
| 122667 | 34348 | 270* | | | | 1,2-DIPHENYLHYDRAZINE, SUSPENDED | UG/L | General Organic |
| 33213659 | 34356 | 0.22 | | 0.034 | | ENDOSULFAN, BETA, TOTAL | UG/L | Pesticide |
| 33213659 | 34357 | 0.22 | | 0.034 | | ENDOSULFAN, BETA, DISSOLVED | UG/L | Pesticide |
| 33213659 | 34358 | 0.22 | | 0.034 | | ENDOSULFAN, BETA, SUSPENDED | UG/L | Pesticide |
| 959988 | 34361 | 0.22 | | 0.034 | | ENDOSULFAN, ALPHA, TOTAL | UG/L | Pesticide |
| 959988 | 34362 | 0.22 | | 0.034 | | ENDOSULFAN, ALPHA, DISSOLVED | UG/L | Pesticide |
| 959988 | 34363 | 0.22 | | 0.034 | | ENDOSULFAN, ALPHA, SUSPENDED | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|------------------|----------------|------------------|-------------------|-----------------|-------|--------------------------------------|-------|-----------------|
| 100414 | 34371 | 32000* | 700 | 430* | | ETHYLBENZENE, TOTAL | UG/L | General Organic |
| 100414 | 34372 | 32000* | 700 | 430* | | ETHYLBENZENE, DISSOLVED | UG/L | General Organic |
| 100414 | 34373 | 32000* | 700 | 430* | | ETHYLBENZENE, SUSPENDED | UG/L | General Organic |
| 206440 | 34376 | 3980* | | 40* | | FLUORANTHENE, TOTAL | UG/L | General Organic |
| 206440 | 34377 | 3980* | | 40* | | FLUORANTHENE, DISSOLVED | UG/L | General Organic |
| 206440 | 34378 | 3980* | | 40* | | FLUORANTHENE, SUSPENDED | UG/L | General Organic |
| 77474 | 34386 | 7.0* | 50 | 7.0* | | HEXACHLOROCYCLOPENTADIENE, TOTAL | UG/L | General Organic |
| 77474 | 34387 | 7.0* | 50 | 7.0* | | HEXACHLOROCYCLOPENTADIENE, DISSOLVED | UG/L | General Organic |
| 77474 | 34388 | 7.0* | 50 | 7.0* | | HEXACHLOROCYCLOPENTADIENE, SUSPENDED | UG/L | General Organic |
| 87683 | 34391 | 90* | | 32* | | HEXACHLOROBUTADIENE, TOTAL | UG/L | General Organic |
| 87683 | 34392 | 90* | | 32* | | HEXACHLOROBUTADIENE, DISSOLVED | UG/L | General Organic |
| 87683 | 34393 | 90* | | 32* | | HEXACHLOROBUTADIENE, SUSPENDED | UG/L | General Organic |
| 67721 | 34396 | 980* | | 940* | | HEXACHLOROETHANE, TOTAL | UG/L | General Organic |
| 67721 | 34397 | 980* | | 940* | | HEXACHLOROETHANE, DISSOLVED | UG/L | General Organic |
| 67721 | 34398 | 980* | | 940* | | HEXACHLOROETHANE, SUSPENDED | UG/L | General Organic |
| 118741 | 34401 | 6.0 ^P | 1.0 | | | HEXACHLOROBENZENE, DISSOLVED | UG/L | General Organic |
| 118741 | 34402 | 6.0 ^P | 1.0 | | | HEXACHLOROBENZENE, SUSPENDED | UG/L | General Organic |
| 193395 | 34403 | | 0.40 ^c | | | INDENO (1,2,3-CD) PYRENE, TOTAL | UG/L | General Organic |
| 193395 | 34404 | | 0.40 ^c | | | INDENO (1,2,3-CD) PYRENE, DISSOLVED | UG/L | General Organic |
| 193395 | 34405 | | 0.40 ^c | | | INDENO (1,2,3-CD) PYRENE, SUSPENDED | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-----------------|----------------|------------------|-------|------------------------------------|-------|-----------------|
| 78591 | 34408 | 117000* | | 12900* | | ISOPHORONE, TOTAL | UG/L | Pesticide |
| 78591 | 34409 | 117000* | | 12900* | | ISOPHORONE, DISSOLVED | UG/L | Pesticide |
| 78591 | 34410 | 117000* | | 12900* | | ISOPHORONE, SUSPENDED | UG/L | Pesticide |
| 75092 | 34423 | | 5.0 | | | METHYLENE CHLORIDE, TOTAL | UG/L | General Organic |
| 75092 | 34424 | | 5.0 | | | METHYLENE CHLORIDE, DISSOLVED | UG/L | General Organic |
| 75092 | 34425 | | 5.0 | | | METHYLENE CHLORIDE, SUSPENDED | UG/L | General Organic |
| 91203 | 34443 | 2300* | | 2350* | | NAPHTHALENE, DISSOLVED | UG/L | General Organic |
| 91203 | 34444 | 2300* | | 2350* | | NAPHTHALENE, SUSPENDED | UG/L | General Organic |
| 98953 | 34447 | 27000* | | 6680* | | NITROBENZENE, TOTAL | UG/L | General Organic |
| 98953 | 34448 | 27000* | | 6680* | | NITROBENZENE, DISSOLVED | UG/L | General Organic |
| 98953 | 34449 | 27000* | | 6680* | | NITROBENZENE, SUSPENDED | UG/L | General Organic |
| 59507 | 34452 | 30* | | | | PARACHLOROMETA CRESOL, TOTAL | UG/L | General Organic |
| 59507 | 34453 | 30* | | | | PARACHLOROMETA CRESOL, DISSOLVED | UG/L | General Organic |
| 59507 | 34454 | 30* | | | | PARACHLOROMETA CRESOL, SUSPENDED | UG/L | General Organic |
| 87865 | 34459 | 20*** | 1.0 | 13 | | PCP (PENTACHLOROPHENOL), DISSOLVED | UG/L | Pesticide |
| 87865 | 34460 | 20*** | 1.0 | 13 | | PCP (PENTACHLOROPHENOL), SUSPENDED | UG/L | Pesticide |
| 85018 | 34461 | 30 ^P | | 7.7 ^P | | PHENANTHRENE, TOTAL | UG/L | General Organic |
| 85018 | 34462 | 30 ^P | | 7.7 ^P | | PHENANTHRENE, DISSOLVED | UG/L | General Organic |
| 85018 | 34463 | 30 ^P | | 7.7 ^P | | PHENANTHRENE, SUSPENDED | UG/L | General Organic |
| 108952 | 34466 | 10200* | | 5800* | | PHENOL, DISSOLVED | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|----------------------------------|-------|-----------------|
| 108952 | 34467 | 10200* | | 5800* | | PHENOL, SUSPENDED | UG/L | General Organic |
| 127184 | 34475 | 5280* | 5.0 | 10200* | | TETRACHLOROETHYLENE, TOTAL | UG/L | General Organic |
| 127184 | 34476 | 5280* | 5.0 | 10200* | | TETRACHLOROETHYLENE, DISSOLVED | UG/L | General Organic |
| 127184 | 34477 | 5280* | 5.0 | 10200* | | TETRACHLOROETHYLENE, SUSPENDED | UG/L | General Organic |
| 108883 | 34481 | 17500* | 1000 | 6300* | | TOLUENE, DISSOLVED | UG/L | General Organic |
| 108883 | 34482 | 17500* | 1000 | 6300* | | TOLUENE, SUSPENDED | UG/L | General Organic |
| 79016 | 34485 | 45000* | 5.0 | 2000* | | TRICHLOROETHYLENE, DISSOLVED | UG/L | General Organic |
| 79016 | 34486 | 45000* | 5.0 | 2000* | | TRICHLOROETHYLENE, SUSPENDED | UG/L | General Organic |
| 75014 | 34493 | | 2.0 | | | VINYL CHLORIDE, DISSOLVED | UG/L | General Organic |
| 75014 | 34494 | | 2.0 | | | VINYL CHLORIDE, SUSPENDED | UG/L | General Organic |
| 75354 | 34501 | | 7.0 | | | 1,1-DICHLOROETHYLENE, TOTAL | UG/L | General Organic |
| 75354 | 34502 | | 7.0 | | | 1,1-DICHLOROETHYLENE, DISSOLVED | UG/L | General Organic |
| 75354 | 34503 | | 7.0 | | | 1,1-DICHLOROETHYLENE, SUSPENDED | UG/L | General Organic |
| 71556 | 34506 | | 200 | 31200* | | 1,1,1-TRICHLOROETHANE, TOTAL | UG/L | General Organic |
| 71556 | 34507 | | 200 | 31200* | | 1,1,1-TRICHLOROETHANE, DISSOLVED | UG/L | General Organic |
| 71556 | 34508 | | 200 | 31200* | | 1,1,1-TRICHLOROETHANE, SUSPENDED | UG/L | General Organic |
| 79005 | 34511 | | 5.0 | | | 1,1,2-TRICHLOROETHANE, TOTAL | UG/L | General Organic |
| 79005 | 34512 | | 5.0 | | | 1,1,2-TRICHLOROETHANE, DISSOLVED | UG/L | General Organic |
| 79005 | 34513 | | 5.0 | | | 1,1,2-TRICHLOROETHANE, SUSPENDED | UG/L | General Organic |
| 79345 | 34516 | | | 9020* | | 1,1,2,2-TETRACHLOROETHANE, TOTAL | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|-------------------------------------------|-------|-----------------|
| 79345 | 34517 | | | 9020* | | 1,1,2,2-TETRACHLOROETHANE, DISSOLVED | UG/L | General Organic |
| 79345 | 34518 | | | 9020* | | 1,1,2,2-TETRACHLOROETHANE, SUSPENDED | UG/L | General Organic |
| 107062 | 34531 | 118000* | 5.0 | 113000* | | 1,2-DICHLOROETHANE, TOTAL | UG/L | General Organic |
| 107062 | 34532 | 118000* | 5.0 | 113000* | | 1,2-DICHLOROETHANE, DISSOLVED | UG/L | General Organic |
| 107062 | 34533 | 118000* | 5.0 | 113000* | | 1,2-DICHLOROETHANE, SUSPENDED | UG/L | General Organic |
| 95501 | 34536 | | 600 | | | 1,2-DICHLOROBENZENE, TOTAL | UG/L | General Organic |
| 95501 | 34537 | | 600 | | | 1,2-DICHLOROBENZENE, DISSOLVED | UG/L | General Organic |
| 95501 | 34538 | | 600 | | | 1,2-DICHLOROBENZENE, SUSPENDED | UG/L | General Organic |
| 78875 | 34541 | | 5.0 | | | 1,2-DICHLOROPROPANE, TOTAL | UG/L | General Organic |
| 78875 | 34542 | | 5.0 | | | 1,2-DICHLOROPROPANE, DISSOLVED | UG/L | General Organic |
| 78875 | 34543 | | 5.0 | | | 1,2-DICHLOROPROPANE, SUSPENDED | UG/L | General Organic |
| 156605 | 34546 | | 100 | | | TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER | UG/L | General Organic |
| 156605 | 34547 | | 100 | | | TRANS-1,2-DICHLOROETHENE, DISSOLVED | UG/L | General Organic |
| 156605 | 34548 | | 100 | | | TRANS-1,2-DICHLOROETHENE, SUSPENDED | UG/L | General Organic |
| 120821 | 34551 | | 70 | | | 1,2,4-TRICHLOROBENZENE, TOTAL | UG/L | General Organic |
| 120821 | 34552 | | 70 | | | 1,2,4-TRICHLOROBENZENE, DISSOLVED | UG/L | General Organic |
| 120821 | 34553 | | 70 | | | 1,2,4-TRICHLOROBENZENE, SUSPENDED | UG/L | General Organic |
| 541731 | 34566 | | 600 | | | 1,3-DICHLOROBENZENE, TOTAL | UG/L | General Organic |
| 541731 | 34567 | | 600 | | | 1,3-DICHLOROBENZENE, DISSOLVED | UG/L | General Organic |
| 541731 | 34568 | | 600 | | | 1,3-DICHLOROBENZENE, SUSPENDED | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|------------------|----------------|----------------|-------------------|-----------------|-------|--------------------------------|-------|-----------------|
| 106467 | 34571 | | 75 | | | 1,4-DICHLOROBENZENE, TOTAL | UG/L | General Organic |
| 106467 | 34572 | | 75 | | | 1,4-DICHLOROBENZENE, DISSOLVED | UG/L | General Organic |
| 106467 | 34573 | | 75 | | | 1,4-DICHLOROBENZENE, SUSPENDED | UG/L | General Organic |
| 95578 | 34586 | 4380* | | | | 2-CHLOROPHENOL, TOTAL | UG/L | General Organic |
| 95578 | 34587 | 4380* | | | | 2-CHLOROPHENOL, DISSOLVED | UG/L | General Organic |
| 95578 | 34588 | 4380* | | | | 2-CHLOROPHENOL, SUSPENDED | UG/L | General Organic |
| 120832 | 34601 | 2020* | | | | 2,4-DICHLOROPHENOL, TOTAL | UG/L | General Organic |
| 120832 | 34602 | 2020* | | | | 2,4-DICHLOROPHENOL, DISSOLVED | UG/L | General Organic |
| 120832 | 34603 | 2020* | | | | 2,4-DICHLOROPHENOL, SUSPENDED | UG/L | General Organic |
| 105679 | 34606 | 2120* | | | | 2,4-DIMETHYLPHENOL, TOTAL | UG/L | General Organic |
| 105679 | 34607 | 2120* | | | | 2,4-DIMETHYLPHENOL, DISSOLVED | UG/L | General Organic |
| 105679 | 34608 | 2120* | | | | 2,4-DIMETHYLPHENOL, SUSPENDED | UG/L | General Organic |
| 121142 | 34611 | 330* | | 590* | | 2,4-DINITROTOLUENE, TOTAL | UG/L | General Organic |
| 121142 | 34612 | 330* | | 590* | | 2,4-DINITROTOLUENE, DISSOLVED | UG/L | General Organic |
| 121142 | 34613 | 330* | | 590* | | 2,4-DINITROTOLUENE, SUSPENDED | UG/L | General Organic |
| 72548 | 34651 | 0.6* | | 3.6* | | P,P'-DDD, DISSOLVED | UG/L | Pesticide |
| 72548 | 34652 | 0.6* | | 3.6* | | P,P'-DDD, SUSPENDED | UG/L | Pesticide |
| 72559 | 34653 | 1050* | | 14* | | P,P'-DDE, DISSOLVED | UG/L | Pesticide |
| 72559 | 34654 | 1050* | | 14* | | P,P'-DDE, SUSPENDED | UG/L | Pesticide |
| 50293 | 34655 | 1.1 | | 0.13 | | P,P'-DDT, DISSOLVED | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|-------------------------------------------------|-------|-----------------|
| 50293 | 34656 | 1.1 | | 0.13 | | P,P'-DDT, SUSPENDED | UG/L | Pesticide |
| 1746016 | 34675 | 0.01* | 0.00003 | | | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT | UG/L | General Organic |
| 1746016 | 34676 | 0.01* | 0.00003 | | | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS | UG/L | General Organic |
| 1746016 | 34677 | 0.01* | 0.00003 | | | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP | UG/L | General Organic |
| 108952 | 34694 | 10200* | | 5800* | | PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL | UG/L | General Organic |
| 91203 | 34696 | 2300* | | 2350* | | NAPHTHALENE, TOTAL | UG/L | General Organic |
| 75990 | 38432 | | 200 | | | DALAPON, WATER, TOTAL | UG/L | Pesticide |
| 75990 | 38433 | | 200 | | | DALAPON, WATER, DISSOLVED | UG/L | Pesticide |
| 75990 | 38434 | | 200 | | | DALAPON, WATER, SUSPENDED | UG/L | Pesticide |
| 96128 | 38437 | | 0.2 | | | DIBROMOCHLOROPROPANE, WATER, TOTAL | UG/L | Pesticide |
| 96128 | 38438 | | 0.2 | | | DIBROMOCHLOROPROPANE, WATER, DISSOLVED | UG/L | Pesticide |
| 96128 | 38439 | | 0.2 | | | DIBROMOCHLOROPROPANE WATER, SUSPENDED | UG/L | Pesticide |
| 96128 | 38760 | | 0.2 | | | DBCP, WATER, TOTAL | UG/L | Pesticide |
| 96128 | 38761 | | 0.2 | | | DBCP, WATER, DISSOLVED | UG/L | Pesticide |
| 96128 | 38762 | | 0.2 | | | DBCP, WATER, SUSPENDED | UG/L | Pesticide |
| 88857 | 38779 | | 7.0 | | | DINOSEB, DISSOLVED | UG/L | Pesticide |
| 88857 | 38780 | | 7.0 | | | DINOSEB, SUSPENDED | UG/L | Pesticide |
| 23135220 | 38865 | | 200 | | | OXAMYL, TOTAL | UG/L | Pesticide |
| 23135220 | 38866 | | 200 | | | OXAMYL, DISSOLVED | UG/L | Pesticide |
| 23135220 | 38867 | | 200 | | | OXAMYL, SUSPENDED | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|------------------|----------------|--------------|-------|------------------------------------------------|-------|-----------------|
| 145733 | 38926 | | 100 | | | ENDOTHALL, WHOLE WATER SAMPLE | UG/L | Pesticide |
| 2921882 | 38932 | 0.083 | | 0.011 | | CHLORPYRIFOS, TOTAL RECOVERABLE | UG/L | Pesticide |
| 2921882 | 38933 | 0.083 | | 0.011 | | CHLORPYRIFOS, DISSOLVED | UG/L | Pesticide |
| 2163806 | 38935 | | 50 | | | MONOSODIUM METHANEARSONATE (MSMA) | UG/L | Pesticide |
| 2921882 | 39012 | 0.083 | | 0.011 | | DURBAN, FLAME PHOTOMETRIC, WATER SAMPLE | UG/L | Pesticide |
| 56382 | 39015 | 0.065 | | | | ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE | UG/L | Pesticide |
| 122349 | 39025 | | 4.0 | | | SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE | UG/L | Pesticide |
| 87865 | 39032 | 20*** | 1.0 | 13 | | PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE | UG/L | Pesticide |
| 1912249 | 39033 | | 3.0 | | | ATRAZINE IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 118741 | 39039 | 6.0 ^P | 1.0 | | | HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT | UG/L | Pesticide |
| 93721 | 39045 | | 50 | | | 2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE | UG/L | Pesticide |
| 116063 | 39053 | | 3.0 | | | ALDICARB IN WHOLE WATER | UG/L | Pesticide |
| 122349 | 39055 | | 4.0 | | | SIMAZINE IN WHOLE WATER | UG/L | Pesticide |
| 117817 | 39100 | 2000* | 6.0 | | | BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER | UG/L | General Organic |
| 117817 | 39103 | 2000* | 6.0 | | | BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED | UG/L | General Organic |
| 117817 | 39104 | 2000* | 6.0 | | | BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED | UG/L | General Organic |
| | 39117 | 0.94* | | 2.994* | | PHTHLATE ESTERS IN WATER | MG/L | General Organic |
| 75014 | 39175 | | 2.0 | | | VINYL CHLORIDE-WHOLE WATER SAMPLE | UG/L | General Organic |
| 79016 | 39180 | 45000* | 5.0 | 2000* | | TRICHLOROETHYLENE-WHOLE WATER SAMPLE | UG/L | General Organic |
| 50293 | 39300 | 1.1 | | 0.13 | | P,P' DDT IN WHOLE WATER SAMPLE | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|-------------------------------------------|-------|-----------|
| 72548 | 39310 | 0.6* | | 3.6* | | P,P' DDD IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 72559 | 39320 | 1050* | | 14* | | P,P' DDE IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 309002 | 39330 | 3.0 | | 1.3 | | ALDRIN IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 309002 | 39331 | 3.0 | | 1.3 | | ALDRIN IN FILT. FRAC. OF WAT. SAMP. | UG/L | Pesticide |
| 309002 | 39332 | 3.0 | | 1.3 | | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. | UG/L | Pesticide |
| 58899 | 39340 | 2.0 | 0.2 | 0.16 | | GAMMA-BHC(LINDANE), WHOLE WATER | UG/L | Pesticide |
| 58899 | 39341 | 2.0 | 0.2 | 0.16 | | GAMMA-BHC(LINDANE), DISSOLVED | UG/L | Pesticide |
| 58899 | 39342 | 2.0 | 0.2 | 0.16 | | GAMMA-BHC(LINDANE), SUSPENDED | UG/L | Pesticide |
| 57749 | 39350 | 2.4 | 2.0 | 0.09 | | CHLORDANE(TECH MIX & METABS), WHOLE WATER | UG/L | Pesticide |
| 57749 | 39352 | 2.4 | 2.0 | 0.09 | | CHLORDANE(TECH MIX & METABS), DISSOLVED | UG/L | Pesticide |
| 57749 | 39353 | 2.4 | 2.0 | 0.09 | | CHLORDANE(TECH MIX & METABS), SUSPENDED | UG/L | Pesticide |
| 72548 | 39360 | 0.6* | | 3.6* | | DDD IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 72548 | 39361 | 0.6* | | 3.6* | | DDD IN FILT. FRAC. OF WATER SMAPLE | UG/L | Pesticide |
| 72548 | 39362 | 0.6* | | 3.6* | | DDD IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 72559 | 39365 | 1050* | | 14* | | DDE IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 72559 | 39366 | 1050* | | 14* | | DDE IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 72559 | 39367 | 1050* | | 14* | | DDE IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 50293 | 39370 | 1.1 | | 0.13 | | DDT IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 50293 | 39371 | 1.1 | | 0.13 | | DDT IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 50293 | 39372 | 1.1 | | 0.13 | | DDT IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|------------------------------------------------|-------|-----------|
| 60571 | 39380 | 2.5 | | 0.71 | | DIELDRIN IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 60571 | 39381 | 2.5 | | 0.71 | | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 60571 | 39382 | 2.5 | | 0.71 | | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 115297 | 39388 | 0.22 | | 0.034 | | ENDOSULFAN IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 72208 | 39390 | 0.18 | 2.0 | 0.037 | | ENDRIN IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 72208 | 39391 | 0.18 | 2.0 | 0.037 | | ENDRIN IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 72208 | 39392 | 0.18 | 2.0 | 0.037 | | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 8001352 | 39400 | 0.73 | 3.0 | 0.21 | | TOXAPHENE IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 8001352 | 39401 | 0.73 | 3.0 | 0.21 | | TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 8001352 | 39402 | 0.73 | 3.0 | 0.21 | | TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 76448 | 39410 | 0.52 | 0.4 | 0.053 | | HEPTACHLOR IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 76448 | 39411 | 0.52 | 0.4 | 0.053 | | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 76448 | 39412 | 0.52 | 0.4 | 0.053 | | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 1024573 | 39420 | 0.52 | 0.2 | 0.053 | | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 1024573 | 39421 | 0.52 | 0.2 | 0.053 | | HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE | UG/L | Pesticide |
| 1024573 | 39422 | 0.52 | 0.2 | 0.053 | | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE | UG/L | Pesticide |
| 72435 | 39478 | | 40 | | | METHOXYCHLOR IN WHOLE WATER DISSOLVED | UG/L | Pesticide |
| 72435 | 39479 | | 40 | | | METHOXYCHLOR IN WHOLE WATER SUSPENDED | UG/L | Pesticide |
| 72435 | 39480 | | 40 | | | METHOXYCHLOR IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 56382 | 39540 | 0.065 | | | | PARATHION IN WHOLE WATER SAMPLE | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|------------------|----------------|-----------------|-------|------------------------------------------------|-------|-------------------|
| 56382 | 39542 | 0.065 | | | | PARATHION IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 56382 | 39543 | 0.065 | | | | PARATHION IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 1912249 | 39630 | | 3.0 | | | ATRAZINE(AATREX) IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 1912249 | 39632 | | 3.0 | | | ATRAZINE DISSOLVED IN WATER | PPB | Pesticide |
| 118741 | 39700 | 6.0 ^P | 1.0 | | | HEXACHLOROBENZENE IN WHOLE WATER SAMPLE | UG/L | General Organic |
| 87683 | 39702 | 90 [*] | | 32 [*] | | HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE | UG/L | General Organic |
| 1918021 | 39720 | | 500 | | | PICLORAM IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 94757 | 39730 | | 70 | | | 2,4-D IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 94757 | 39732 | | 70 | | | 2,4-D IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 94757 | 39733 | | 70 | | | 2,4-D IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 93721 | 39760 | | 50 | | | SILVEX IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 93721 | 39762 | | 50 | | | SILVEX IN FILT. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 93721 | 39763 | | 50 | | | SILVEX IN SUSP. FRAC. OF WATER SAMPLE | UG/L | Pesticide |
| 58899 | 39782 | 2.0 | 0.2 | 0.16 | | LINDANE IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 1071836 | 39941 | | 700 | | | ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE) | UG/L | Pesticide |
| 7782505 | 45650 | 0.019 | | 0.013 | | CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE | MG/L | General Inorganic |
| 56382 | 46315 | 0.065 | | | | ETHYL PARATHION IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 58899 | 46322 | 2.0 | 0.2 | 0.16 | | LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 76448 | 46326 | 0.52 | 0.4 | 0.053 | | HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE | UG/L | Pesticide |
| 15972608 | 46342 | | 2.0 | | | ALACHLOR (LASSO), WATER, DISSOLVED | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|------------------|-------------------|--------------|-------|-------------------------------------------------|-------|-------------------|
| 7782505 | 46472 | 0.019 | | 0.013 | | CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER | MG/L | General Inorganic |
| 7782505 | 46473 | 0.019 | | 0.013 | | CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER | MG/L | General Inorganic |
| 57125 | 46479 | 22 | 200 | 1.0 | | CYANIDE, DISSOLVED, WATER | UG/L | General Inorganic |
| 7440382 | 46551 | 360 | 50 | 69 | | ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED | UG/L | Metal |
| 7440393 | 46558 | | 2000 | | | BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT | UG/L | Metal |
| 7440439 | 46559 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER | UG/L | Metal |
| 7440473 | 46560 | | 100 | | | CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT. | UG/L | Metal |
| 7440508 | 46562 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER. | UG/L | Metal |
| 7439921 | 46564 | 82 ⁺ | 15 ^a | 220 | | LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED | UG/L | Metal |
| 7440224 | 46566 | 4.1 ⁺ | 100 ^s | 0.12 | | SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER. | UG/L | Metal |
| 7440666 | 46567 | 120 ⁺ | 5000 ^s | 95 | | ZINC, EXTRACTABLE, FIELD ACID W/HNO3, LAB FILTR | UG/L | Metal |
| 56382 | 49011 | 0.065 | | | | UNKNOWN AS PARATHION IN WHOLE WATER SAMPLE | UG/L | Pesticide |
| 7782505 | 50058 | 0.019 | | 0.013 | | CHLORINE DOSE | MG/L | General Inorganic |
| 7782505 | 50060 | 0.019 | | 0.013 | | CHLORINE, TOTAL RESIDUAL | MG/L | General Inorganic |
| 7782505 | 50064 | 0.019 | | 0.013 | | CHLORINE, FREE AVAILABLE | MG/L | General Inorganic |
| 7782505 | 50066 | 0.019 | | 0.013 | | CHLORINE, COMBINED AVAILABLE | MG/L | General Inorganic |
| 7782505 | 50074 | 0.019 | | 0.013 | | CHLORITE, WHOLE WATER | MG/L | General Inorganic |
| 16887006 | 70352 | 860 | 250 ^s | | | CHLORIDE, ORGANIC | MG/L | General Organic |
| 14797558 | 71850 | | 44 | | | NITRATE NITROGEN, TOTAL (AS NO3) | MG/L | Nitrogen |
| 14797558 | 71851 | | 44 | | | NITRATE NITROGEN, DISSOLVED (AS NO3) | MG/L | Nitrogen |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|------------------|-------------------|--------------------|-------|------------------------------------------|-------|-----------------|
| 14797650 | 71855 | | 3.3 | | | NITRITE NITROGEN, TOTAL (AS NO2) | MG/L | Nitrogen |
| 14797650 | 71856 | | 3.3 | | | NITRITE NITROGEN, DISSOLVED (AS NO2) | MG/L | Nitrogen |
| 7439976 | 71890 | 2.4 | 2.0 | 2.1 | | MERCURY, DISSOLVED | UG/L | Metal |
| 7439976 | 71895 | 2.4 | 2.0 | 2.1 | | MERCURY, SUSPENDED | UG/L | Metal |
| 7439976 | 71900 | 2.4 | 2.0 | 2.1 | | MERCURY, TOTAL | UG/L | Metal |
| 7439976 | 71901 | 2.4 | 2.0 | 2.1 | | MERCURY,TOTAL RECOVERABLE IN WATER AS HG | UG/L | Metal |
| 7440439 | 71946 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM, EXTRACTABLE | UG/L | Metal |
| 7440473 | 71947 | | 100 | | | CHROMIUM, EXTRACTABLE | UG/L | Metal |
| 7439921 | 71949 | 82 ⁺ | 15 ^a | 220 | | LEAD, EXTRACTABLE | UG/L | Metal |
| 7440666 | 71950 | 120 ⁺ | 5000 ^s | 95 | | ZINC, EXTRACTABLE | UG/L | Metal |
| 7440508 | 71951 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, EXTRACTABLE | UG/L | Metal |
| 1336363 | 76011 | 2000 | 500 | 10000 | | PCBS, SUSPENDED, WATER | NG/L | General Organic |
| 1336363 | 76012 | 2000 | 500 | 10000 | | PCBS, TOTAL RECOVERABLE, WATER | NG/L | General Organic |
| 156592 | 77093 | | 70 | | | CIS-1,2-DICHLOROETHYLENE, WHOLE WATER | UG/L | General Organic |
| 100425 | 77128 | | 100 | | | STYRENE, WHOLE WATER | UG/L | General Organic |
| 106489 | 77296 | | | 29700 [*] | | P-CHLOROPHENOL, WHOLE WATER | UG/L | General Organic |
| 106934 | 77651 | | 0.05 | | | 1,2-DIBROMOETHANE, WHOLE WATER | UG/L | General Organic |
| 95954 | 77687 | 100 ^P | | 240 ^P | | 2,4,5-TRICHLOROPHENOL, WHOLE WATER | UG/L | General Organic |
| 935955 | 77769 | | | 440 [*] | | 2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER | UG/L | General Organic |
| 103231 | 77903 | | 400 | | | BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER | UG/L | General Organic |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------------|-------------------|--------------|-------|-----------------------------------------------|-------|-------------------|
| 18540299 | 78247 | 16 | 100 | 1100 | | CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE | UG/L | Metal |
| 57125 | 78248 | 22 | 200 | 1.0 | | CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE | UG/L | Metal |
| | 78456 | 11* | | 12* | | HALOMETHANES, SUMMATION, WHOLE WATER | MG/L | General Organic |
| 14808798 | 78462 | | 250 ^b | | | SULFATE, WATER, DISSOLVED AS S | MG/L | Metal |
| 85007 | 78885 | | 20 | | | DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE | UG/L | Pesticide |
| 7440611 | 80020 | | 20° | | | URANIUM, DISS. BY EXTRACTION FLUOROMETRIC | UG/L | Radiological |
| 16065831 | 80357 | 1700 | 100 | 10300* | | CHROMIUM, TRIVALENT, DISSOLVED | UG/L | Metal |
| 57125 | 81208 | 0.022 | 0.2 | 0.001 | | CYANIDE,FREE (NOT AMENABLE TO CHLORINATION) | MG/L | General Inorganic |
| 608731 | 81283 | 100* | | 0.34* | | BENZENEHEXACHLORIDE, WHOLE WATER | UG/L | Pesticide |
| 88857 | 81287 | | 7.0 | | | DNBP(C10H12N2O5), WHOLE WATER SAMPLE | UG/L | Pesticide |
| 26638197 | 81327 | 23000* | 5.0 | 10300* | | DICHLOROPROPANE, WHOLE WATER SAMPLE | UG/L | General Organic |
| 25321226 | 81333 | 1120* | | 1970* | | DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE | UG/L | General Organic |
| 2921882 | 81403 | 0.083 | | 0.011 | | DURBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE | UG/L | Pesticide |
| 1563662 | 81405 | | 40 | | | CARBOFURAN (EURADAN) WHOLE WATER SAMPLE | UG/L | Pesticide |
| 76017 | 81501 | 7240* | | 390* | | PENTACHLOROETHANE, WHOLE WATER SAMPLE | UG/L | General Organic |
| 25321226 | 81524 | 1120* | | 1970* | | DICHLOROBENZENE, WHOLE WATER SAMPLE | UG/L | General Organic |
| 25322207 | 81549 | 9320* | | | | TETRACHLOROETHANE, WHOLE WATER SAMPLE | UG/L | General Organic |
| 26638197 | 81703 | 23* | 0.005* | 10.3* | | DICHLOROPROPANE, WHOLE WATER SAMPLE | MG/L | General Organic |
| 7440508 | 81750 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER, INTERSTITIAL WATERFROM SEDIMENTS | UG/L | Metal |
| 7440020 | 81752 | 1400 ⁺ | 100 | 75 | | NICKEL, INTERSTITIAL WATER FROM SEDIMENTS | UG/L | Metal |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|--------------------|---------------------|--------------|-----------------|------------------------------------------|-------|-------------------|
| 7440666 | 81754 | 120 ⁺ | 5000 ^s | 95 | | ZINC, INTERSTITIAL WATER FROM SEDIMENTS | UG/L | Metal |
| 25323891 | 81853 | 18000 [*] | | | | TRICHLOROETHANE, WHOLE WATER SAMPLE | UG/L | General Organic |
| 7439976 | 81931 | 2.4 | 2.0 | 2.1 | | MERCURY (HG) SUSPENDED FRACTION OF WATER | UG/G | Metal |
| 7440666 | 81933 | 120 ⁺ | 5000 ^s | 95 | | ZINC (ZN) SUSPENDED FRACTION OF WATER | UG/G | Metal |
| 7439921 | 81936 | 82 ⁺ | 15 ^a | 220 | | LEAD (PB) DISSOLVED CATIONIC SPECIES | UG/L | Metal |
| 7440439 | 81937 | 3.9 ⁺ | 5.0 | 43 | | CADMIUM (CD) DISSOLVED CATIONIC SPECIES | UG/L | Metal |
| 7440473 | 81938 | | 100 | | | CHROMIUM (CR) DISSOLVED CATIONIC SPECIES | UG/L | Metal |
| 7440508 | 81939 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER (CU) DISSOLVED CATIONIC SPECIES | UG/L | Metal |
| 7440666 | 81940 | 120 ⁺ | 5000 ^s | 95 | | ZINC (ZN) DISSOLVED CATIONIC SPECIES | UG/L | Metal |
| 7440473 | 81941 | | 100 | | | CHROMIUM (CR) DISSOLVED ANIONIC SPECIES | UG/L | Metal |
| 7440508 | 81942 | 18 ⁺ | 1300 ^a | 2.9 | | COPPER (CU) DISSOLVED ANIONIC SPECIES | UG/L | Metal |
| 7440666 | 81943 | 120 ⁺ | 5000 ^s | 95 | | ZINC (ZN) DISSOLVED ANIONIC SPECIES | UG/L | Metal |
| | 82078 | | | | 50 ^l | TURBIDITY, FIELD | NTU | Physical |
| | 82079 | | | | 50 ^l | TURBIDITY, LAB | NTU | Physical |
| 88857 | 82226 | | 7.0 | | | 2 SECONDARY BUTYL 4,6-DINITROPHENOL | UG/L | Pesticide |
| 16887006 | 82295 | 860000 | 250000 ^s | | | CHLORIDE DISSOLVED AS CL IN WATER | UG/L | General Inorganic |
| 72435 | 82350 | | 40 | | | METHOXYCHLOR, DISSOLVED IN WATER | UG/L | Pesticide |
| 72435 | 82351 | | 40 | | | METHOXYCHLOR, SUSPENDED IN WATER | UG/L | Pesticide |
| 115297 | 82354 | 0.22 | | 0.034 | | ENDOSULFAN, DISSOLVED IN WATER | UG/L | Pesticide |
| 115297 | 82355 | 0.22 | | 0.034 | | ENDOSULFAN, SUSPENDED IN WATER | UG/L | Pesticide |

| C.A.S. Number | STORET Code | FRESH ACUTE | DRINKING WATER | MARINE ACUTE | OTHER | PARAMETER DESCRIPTION | UNITS | CATEGORY |
|---------------|-------------|-------------|----------------|--------------|-------|--------------------------------------------------|-------|-------------------|
| 57125 | 82573 | 0.022 | 0.2 | 0.001 | | CYANIDE/CHLORINATION IN WATER | MG/L | General Inorganic |
| 1646873 | 82586 | | 4.0 | | | ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE | UG/L | General Organic |
| 1646884 | 82587 | | 2.0 | | | ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE | UG/L | General Organic |
| 23135220 | 82613 | | 200 | | | OXAMYL, WHOLE WATER, TOTAL RECOVERABLE | UG/L | Pesticide |
| 1563662 | 82615 | | 40 | | | CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE | UG/L | Pesticide |
| 116063 | 82619 | | 3.0 | | | ALDICARB, WHOLE WATER, TOTAL RECOVERABLE | UG/L | Pesticide |
| 33213659 | 82624 | 0.22 | | 0.034 | | ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE | UG/L | Pesticide |
| 96128 | 82625 | | 0.2 | | | DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE | UG/L | Pesticide |

Footnote Key:

*Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

†Hardness Dependent Criteria (100 mg/L CaCO₃ Used).

***pH Dependent Criteria (7.8 pH Used).

‡Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

^Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

#EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

!Arizona state standard.

ªEPA action level, 40 CFR 141.80.

ºCalifornia and Florida state bathing water standards.

«A Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

ªTotal coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

ªProposed Criterion.

†Average annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

ªEPA National Secondary Drinking Water Regulation, 40 CFR 143.

†The maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

ªColdwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory and Monitoring Program "Level I" Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

| STORET Code | Water Temperature Parameter Group | C.A.S. Number |
|--------------------|------------------------------------------|----------------------|
| 00010 | TEMPERATURE, WATER (DEGREES CENTIGRADE) | - |
| 00011 | TEMPERATURE, WATER (DEGREES FAHRENHEIT) | - |
| | | |
| STORET Code | Flow Parameter Group¹ | C.A.S. Number |
| 00056 | FLOW RATE, GALLONS/DAY | - |
| 00058 | FLOW RATE, GALLONS/MIN. | - |
| 00059 | FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE | - |
| 00060 | FLOW, STREAM, MEAN DAILY CFS | - |
| 00061 | FLOW, STREAM, INSTANTANEOUS CFS | - |
| 00065 | STAGE, STREAM (FEET) | - |
| 00067 | TIDE STAGE CODE | - |
| 00072 | STAGE, STREAM (METERS) | - |
| | | |

¹Tide stage is included in the Flow Parameter Group for coastal parks.

| STORET Code | Clarity/Turbidity Parameter Group | C.A.S. Number |
|--------------------|--------------------------------------------------------------|----------------------|
| 00070 | TURBIDITY, (JACKSON CANDLE UNITS) | - |
| 00075 | TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE) | - |
| 00076 | TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT) | - |
| 00077 | TRANSPARENCY, SECCHI DISC (INCHES) | - |
| 00078 | TRANSPARENCY, SECCHI DISC (METERS) | - |
| 00530 | RESIDUE, TOTAL NONFILTRABLE (MG/L) | - |
| 82078 | TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU | - |
| 82079 | TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU | - |
| | | |
| STORET Code | Conductivity Parameter Group | C.A.S. Number |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C) | - |
| 00095 | SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) | - |
| 00096 | SALINITY AT 25 DEGREES C (MG/ML) | - |
| 00480 | SALINITY - PARTS PER THOUSAND | - |
| | | |
| STORET Code | Dissolved Oxygen Parameter Group | C.A.S. Number |
| 00299 | OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L) | 7782447 |
| 00300 | OXYGEN, DISSOLVED (MG/L) | 7782447 |
| 00301 | OXYGEN, DISSOLVED, PERCENT OF SATURATION | 7782447 |
| 00389 | OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L) | 7782447 |
| | | |
| STORET Code | pH Parameter Group | C.A.S. Number |
| 00400 | PH (STANDARD UNITS) | - |
| 00403 | PH, LAB (STANDARD UNITS) | - |
| 00406 | PH, FIELD (STANDARD UNITS) | - |
| | | |

| STORET Code | Alkalinity Parameter Group | C.A.S. Number |
|-------------|----------------------------------------------------------|---------------|
| 00409 | ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (μ EQ/L) | 471341 |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO_3) | 471341 |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | 77098 |
| 00430 | ALKALINITY, CARBONATE (MG/L AS CaCO_3) | 471341 |
| 00435 | ACIDITY, TOTAL (MG/L AS CaCO_3) | 471341 |
| 00440 | BICARBONATE ION (MG/L AS HCO_3) | 71523 |
| 00445 | CARBONATE ION (MG/L AS CO_3) | 3812326 |
| | | |
| STORET Code | Nitrate/Nitrogen Parameter Group | C.A.S. Number |
| 00600 | NITROGEN, TOTAL (MG/L AS N) | 17778880 |
| 00602 | NITROGEN, DISSOLVED (MG/L AS N) | 17778880 |
| 00605 | NITROGEN, ORGANIC, TOTAL (MG/L AS N) | 17778880 |
| 00607 | NITROGEN, ORGANIC, DISSOLVED (MG/L AS N) | 17778880 |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | 17778880 |
| 00610 | NITROGEN, AMMONIA, TOTAL (MG/L AS N) | 17778880 |
| 00612 | AMMONIA, UNIONIZED (MG/L AS N) | 7664417 |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | 17778880 |
| 00620 | NITRATE NITROGEN, TOTAL (MG/L AS N) | 17778880 |
| 00623 | NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N) | 17778880 |
| 00625 | NITROGEN, KJELDAHL, TOTAL (MG/L AS N) | 17778880 |
| 00630 | NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) | 17778880 |
| 00631 | NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N) | 17778880 |
| 71845 | NITROGEN, AMMONIA, TOTAL (MG/L AS NH_4) | 14798039 |
| 71846 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH_4) | 14798039 |
| 71850 | NITRATE NITROGEN, TOTAL (MG/L AS NO_3) | 14797558 |
| 71851 | NITRATE NITROGEN, DISSOLVED (MG/L AS NO_3) | 14797558 |
| 71855 | NITRITE NITROGEN, TOTAL (MG/L AS NO_2) | 14797650 |
| 71856 | NITRITE NITROGEN, DISSOLVED (MG/L AS NO_2) | 14797650 |

| STORET Code | Phosphate/Phosphorus Parameter Group | C.A.S. Number |
|--------------------|-----------------------------------------------------------------|----------------------|
| 00650 | PHOSPHATE, TOTAL (MG/L AS PO4) | 14265442 |
| 00655 | PHOSPHATE, POLY (MG/L AS PO4) | 14265442 |
| 00660 | PHOSPHATE, ORTHO (MG/L AS PO4) | 14265442 |
| 00665 | PHOSPHORUS, TOTAL (MG/L AS P) | 7723140 |
| 00666 | PHOSPHORUS, DISSOLVED (MG/L AS P) | 7723140 |
| 00670 | PHOSPHORUS, TOTAL ORGANIC (MG/L AS P) | 7723140 |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | 7723140 |
| 70505 | PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P) | 7723140 |
| 70507 | PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) | 7723140 |
| | | |
| STORET Code | Sulfates/Total Dissolved Solids/Hardness Parameter Group | C.A.S. Number |
| 00900 | HARDNESS, TOTAL (MG/L AS CaCO3) | 471341 |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | 14808798 |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | 14808798 |
| 70300 | RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L) | - |
| | | |
| STORET Code | Chlorophyll Parameter Group | C.A.S. Number |
| 32209 | CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED | 479618 |
| 32210 | CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED | 479618 |
| 32211 | CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH. | 479618 |
| 32217 | CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED | 479618 |
| 32223 | CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED | 479618 |
| 32228 | CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO. | 479618 |
| 32229 | CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER | 479618 |
| 32230 | CHLOROPHYLL A (MG/L) | 479618 |
| | | |

| STORET Code | Bacteria Parameter Group | C.A.S. Number |
|--------------------|----------------------------------------------------------------------|----------------------|
| 00111 | RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI | - |
| 31501 | COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C | - |
| 31503 | COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C | - |
| 31504 | COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C | - |
| 31505 | COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506) | - |
| 31506 | COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG. | - |
| 31507 | COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508) | - |
| 31508 | COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG. | - |
| 31613 | FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR | - |
| 31614 | FECAL COLIFORM, MPN, TUBE CONFIGURATION | - |
| 31615 | FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614) | - |
| 31616 | FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C | - |
| 31617 | FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618) | - |
| 31625 | FECAL COLIFORM, MF, M-FC, 0.7 UM | - |
| 31648 | E. COLI - MTEC-MF | - |
| 31649 | ENTEROCOCCI- ME-MF | - |
| 31673 | FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR | - |
| 31676 | FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG. | - |
| 31677 | FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678) | - |
| 31751 | PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS | - |
| | | |
| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) | C.A.S. Number |
| 00718 | CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L) | 57125 |
| 00719 | CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L) | 57125 |
| 00720 | CYANIDE, TOTAL (MG/L AS CN) | 57125 |
| 00722 | CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L) | 57125 |
| 00723 | CYANIDE, DISSOLVED STD METHOD (UG/L) | 57125 |
| 00724 | CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L) | 57125 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 00969 | CHRYSTILE ASBESTOS FIBERS/LITER | 1332214 |
| 00973 | AMPHIBOLE ASBESTOS FIBERS/LITER | 1332214 |
| 00976 | AMBIGUOUS ASBESTOS FIBERS/LITER | 1332214 |
| 00977 | NON-AMPHIBOLE NON-CHRYSTILE ASBESTOS FIBERS/LITER | 1332214 |
| 00978 | ARSENIC, TOTAL RECOVERABLE IN WATER AS AS | 7440382 |
| 00981 | SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L) | 7782492 |
| 00982 | THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L) | 7440280 |
| 00990 | SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L) | 7782492 |
| 00991 | ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L) | 7440382 |
| 00995 | ARSENIC, INORGANIC DISSOLVED (UG/L AS AS) | 7440382 |
| 00996 | ARSENIC, INORGANIC SUSPENDED (UG/L AS AS) | 7440382 |
| 00997 | ARSENIC, INORGANIC TOTAL (UG/L AS AS) | 7440382 |
| 00998 | BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L) | 7440417 |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | 7440382 |
| 01001 | ARSENIC, SUSPENDED (UG/L AS AS) | 7440382 |
| 01002 | ARSENIC, TOTAL (UG/L AS AS) | 7440382 |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | 7440417 |
| 01011 | BERYLLIUM, SUSPENDED (UG/L AS BE) | 7440417 |
| 01012 | BERYLLIUM, TOTAL (UG/L AS BE) | 7440417 |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | 7440439 |
| 01026 | CADMIUM, SUSPENDED (UG/L AS CD) | 7440439 |
| 01027 | CADMIUM, TOTAL (UG/L AS CD) | 7440439 |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | 7440473 |
| 01031 | CHROMIUM, SUSPENDED (UG/L AS CR) | 7440473 |
| 01032 | CHROMIUM, HEXAVALENT (UG/L AS CR) | 7440473 |
| 01033 | CHROMIUM, TRI-VAL (UG/L AS CR) | 16065831 |
| 01034 | CHROMIUM, TOTAL (UG/L AS CR) | 7440473 |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | 7440508 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 01041 | COPPER, SUSPENDED (UG/L AS CU) | 7440508 |
| 01042 | COPPER, TOTAL (UG/L AS CU) | 7440508 |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | 7439921 |
| 01050 | LEAD, SUSPENDED (UG/L AS PB) | 7439921 |
| 01051 | LEAD, TOTAL (UG/L AS PB) | 7439921 |
| 01057 | THALLIUM, DISSOLVED (UG/L AS TL) | 7440280 |
| 01058 | THALLIUM, SUSPENDED (UG/L AS TL) | 7440280 |
| 01059 | THALLIUM, TOTAL (UG/L AS TL) | 7440280 |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | 7440020 |
| 01066 | NICKEL, SUSPENDED (UG/L AS NI) | 7440020 |
| 01067 | NICKEL, TOTAL (UG/L AS NI) | 7440020 |
| 01074 | NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L) | 7440020 |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | 7440224 |
| 01076 | SILVER, SUSPENDED (UG/L AS AG) | 7440224 |
| 01077 | SILVER, TOTAL (UG/L AS AG) | 7440224 |
| 01079 | SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L) | 7440224 |
| 01089 | COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L) | 7440508 |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | 7440666 |
| 01091 | ZINC, SUSPENDED (UG/L ZN) | 7440666 |
| 01092 | ZINC, TOTAL (UG/L AS ZN) | 7440666 |
| 01094 | ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L) | 7440666 |
| 01095 | ANTIMONY, DISSOLVED (UG/L AS SB) | 7440360 |
| 01096 | ANTIMONY, SUSPENDED (UG/L AS SB) | 7440360 |
| 01097 | ANTIMONY, TOTAL (UG/L AS SB) | 7440360 |
| 01113 | CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L) | 7440439 |
| 01114 | LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L) | 7439921 |
| 01118 | CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L) | 7440473 |
| 01119 | COPPER, TOTAL RECOVERABLE IN WATER AS CU (UG/L) | 7440508 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 01124 | THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L) | 7440280 |
| 01128 | THALLIUM, TOTAL RECOVERABLE <95%, UG/L AS TL | 7440280 |
| 01138 | SELENIUM, IN WATER, LBS/DAY | 7782492 |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | 7782492 |
| 01146 | SELENIUM, SUSPENDED (UG/L AS SE) | 7782492 |
| 01147 | SELENIUM, TOTAL (UG/L AS SE) | 7782492 |
| 01167 | SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L) | 7782492 |
| 01220 | CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR) | 18540299 |
| 01252 | ARSENIC, LB/DAY/CFS STREAM FLOW | 7440382 |
| 01253 | CADMIUM, LB/DAY/CFS STREAM FLOW | 7440439 |
| 01254 | CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW) | 7740473 |
| 01255 | CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW | 18540299 |
| 01256 | COPPER, LB/DAY/CFS STREAM FLOW | 7440508 |
| 01257 | CYANIDE LB/DAY/CFS STREAM FLOW | 57125 |
| 01259 | LEAD, LB/DAY/CFS STREAM FLOW | 7439921 |
| 01260 | MERCURY, LB/DAY/CFS STREAM FLOW | 7439976 |
| 01261 | NICKEL, LB/DAY/CFS STREAM FLOW | 7440020 |
| 01263 | SILVER, LB/DAY/CFS STREAM FLOW | 7440224 |
| 01264 | ZINC LB/DAY/CFS STREAM FLOW | 7440666 |
| 01268 | ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L) | 7440360 |
| 01291 | CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L) | 57125 |
| 01303 | ZINC, POTENTIALLY DISSOLVED WATER (MG/L) | 7440666 |
| 01304 | SILVER, POTENTIALLY DISSOLVED WATER (MG/L) | 7440224 |
| 01306 | COPPER, POTENTIALLY DISSOLVED WATER (MG/L) | 7440508 |
| 01307 | CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L) | 18540299 |
| 01309 | ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7440382 |
| 01312 | BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7440417 |
| 01313 | CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7440439 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 01314 | CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L) | 16065831 |
| 01318 | LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7439921 |
| 01321 | MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7439976 |
| 01322 | NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7440020 |
| 01323 | SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7782492 |
| 01324 | THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L) | 7440280 |
| 01523 | SILVER, IONIC (UG/L) | 7440224 |
| 22675 | SELENIUM, DISSOLVED ORGANIC (UG/L) | 7782492 |
| 22676 | SELENIUM, HEXAVALENT, DISSOLVED (UG/L) | 7782492 |
| 22677 | SELENIUM, TETRAVALENT, DISSOLVED | 7782492 |
| 22678 | ARSENIC, DISSOLVED ORGANIC (UG/L) | 7440382 |
| 22679 | ARSENIC, PENTAVALENT, DISSOLVED (UG/L) | 7440382 |
| 22680 | ARSENIC, TRIVALENT, DISSOLVED (UG/L) | 7440382 |
| 30197 | 2-CHLOROETHYL VINYL ETHER, WATER, WHL, RECOVER (UG/L) | 110758 |
| 30201 | CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L) | 74873 |
| 30202 | BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L) | 74839 |
| 32003 | CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L) | 67663 |
| 32005 | CARBON CHLOROFORM EXTRACTABLES (UG/L) | 67663 |
| 32021 | CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L) | 67663 |
| 32022 | CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L) | 67663 |
| 32101 | BROMODICHLOROMETHANE, WHOLE WATER (UG/L) | 75274 |
| 32102 | CARBON TETRACHLORIDE, WHOLE WATER, (UG/L) | 56235 |
| 32103 | 1,2-DICHLOROETHANE, WHOLE WATER (UG/L) | 107062 |
| 32104 | BROMOFORM, WHOLE WATER, (UG/L) | 75252 |
| 32105 | DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L) | 124481 |
| 32106 | CHLOROFORM, WHOLE WATER (UG/L) | 67663 |
| 32260 | CARBON TETRACHLORIDE EXTRACTABLES (MG/L) | 56235 |
| 32270 | CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER | 67663 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 34010 | TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L) | 108883 |
| 34030 | BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L) | 71432 |
| 34198 | BHC-DELTA, WATER, WHOLE (LBS/DAY) | 319868 |
| 34200 | ACENAPHTHYLENE, TOTAL (UG/L) | 208968 |
| 34201 | ACENAPHTHYLENE, DISSOLVED (UG/L) | 208968 |
| 34202 | ACENAPHTHYLENE, SUSPENDED (UG/L) | 208968 |
| 34205 | ACENAPHTHENE, TOTAL (UG/L) | 83329 |
| 34206 | ACENAPHTHENE, DISSOLVED (UG/L) | 83329 |
| 34207 | ACENAPHTHENE, SUSPENDED (UG/L) | 83329 |
| 34210 | ACROLEIN, TOTAL (UG/L) | 107028 |
| 34211 | ACROLEIN, DISSOLVED (UG/L) | 107028 |
| 34212 | ACROLEIN, SUSPENDED (UG/L) | 107028 |
| 34215 | ACRYLONITRILE, TOTAL (UG/L) | 107131 |
| 34216 | ACRYLONITRILE, DISSOLVED (UG/L) | 107131 |
| 34217 | ACRYLONITRILE, SUSPENDED (UG/L) | 107131 |
| 34220 | ANTHRACENE, TOTAL (UG/L) | 120127 |
| 34221 | ANTHRACENE, DISSOLVED (UG/L) | 120127 |
| 34222 | ANTHRACENE, SUSPENDED (UG/L) | 120127 |
| 34225 | ASBESTOS (FIBROUS) TOTAL (UG/L) | 1332214 |
| 34226 | ASBESTOS (FIBROUS) DISSOLVED (UG/L) | 1332214 |
| 34227 | ASBESTOS (FIBROUS) SUSPENDED (UG/L) | 1332214 |
| 34230 | BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L) | 205992 |
| 34231 | BENZO(B)FLUORANTHENE, DISSOLVED (UG/L) | 205992 |
| 34232 | BENZO(B)FLUORANTHENE, SUSPENDED (UG/L) | 205992 |
| 34235 | BENZENE, DISSOLVED (UG/L) | 71432 |
| 34236 | BENZENE, SUSPENDED (UG/L) | 71432 |
| 34239 | BENZIDINE, DISSOLVED (UG/L) | 92875 |
| 34240 | BENZIDINE, SUSPENDED (UG/L) | 92875 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 34242 | BENZO(K)FLUORANTHENE, TOTAL (UG/L) | 207089 |
| 34243 | BENZO(K)FLUORANTHENE, DISSOLVED (UG/L) | 207089 |
| 34244 | BENZO(K)FLUORANTHENE, SUSPENDED (UG/L) | 207089 |
| 34247 | BENZO-A-PYRENE, TOTAL (UG/L) | 50328 |
| 34248 | BENZO-A-PYRENE, DISSOLVED (UG/L) | 50328 |
| 34249 | BENZO-A-PYRENE, SUSPENDED (UG/L) | 50328 |
| 34253 | A-BHC-ALPHA, DISSOLVED (UG/L) | 319846 |
| 34254 | A-BHC-ALPHA, SUSPENDED (UG/L) | 319846 |
| 34255 | B-BHC-BETA, DISSOLVED (UG/L) | 319857 |
| 34256 | B-BHC-BETA, SUSPENDED (UG/L) | 319857 |
| 34259 | DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L) | 319868 |
| 34260 | DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L) | 319868 |
| 34261 | DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L) | 319868 |
| 34265 | R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L) | 58899 |
| 34266 | R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L) | 58899 |
| 34273 | BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L) | 111444 |
| 34274 | BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L) | 111444 |
| 34275 | BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L) | 111444 |
| 34278 | BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L) | 111911 |
| 34279 | BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L) | 111911 |
| 34280 | BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L) | 111911 |
| 34288 | BROMOFORM, DISSOLVED (UG/L) | 75252 |
| 34289 | BROMOFORM, SUSPENDED (UG/L) | 75252 |
| 34292 | N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L) | 85687 |
| 34293 | N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L) | 85687 |
| 34294 | N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L) | 85687 |
| 34297 | CARBON TETRACHLORIDE, DISSOLVED (UG/L) | 56235 |
| 34298 | CARBON TETRACHLORIDE, SUSPENDED (UG/L) | 56235 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 34301 | CHLOROBENZENE, TOTAL (UG/L) | 108907 |
| 34302 | CHLOROBENZENE, DISSOLVED (UG/L) | 108907 |
| 34303 | CHLOROBENZENE, SUSPENDED (UG/L) | 108907 |
| 34306 | CHLORODIBROMOMETHANE, TOTAL (UG/L) | 124481 |
| 34307 | CHLORODIBROMOMETHANE, DISSOLVED (UG/L) | 124481 |
| 34308 | CHLORODIBROMOMETHANE, SUSPENDED (UG/L) | 124481 |
| 34311 | CHLOROETHANE, TOTAL (UG/L) | 75003 |
| 34312 | CHLOROETHANE, DISSOLVED (UG/L) | 75003 |
| 34313 | CHLOROETHANE, SUSPENDED (UG/L) | 75003 |
| 34316 | CHLOROFORM, DISSOLVED (UG/L) | 67663 |
| 34317 | CHLOROFORM, SUSPENDED (UG/L) | 67663 |
| 34320 | CHRYSENE, TOTAL (UG/L) | 218019 |
| 34321 | CHRYSENE, DISSOLVED (UG/L) | 218019 |
| 34322 | CHRYSENE, SUSPENDED (UG/L) | 218019 |
| 34325 | CYANIDE, SUSPENDED (MG/L) | 57125 |
| 34327 | DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L) | 84742 |
| 34328 | DICHLOROBROMOMETHANE, DISSOLVED (UG/L) | 75274 |
| 34329 | DICHLOROBROMOMETHANE, SUSPENDED (UG/L) | 75274 |
| 34336 | DIETHYL PHTHALATE, TOTAL (UG/L) | 84662 |
| 34337 | DIETHYL PHTHALATE, DISSOLVED (UG/L) | 84662 |
| 34338 | DIETHYL PHTHALATE, SUSPENDED (UG/L) | 84662 |
| 34341 | DIMETHYL PHTHALATE, TOTAL (UG/L) | 131113 |
| 34342 | DIMETHYL PHTHALATE, DISSOLVED (UG/L) | 131113 |
| 34343 | DIMETHYL PHTHALATE, SUSPENDED (UG/L) | 131113 |
| 34346 | 1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L) | 122667 |
| 34347 | 1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L) | 122667 |
| 34348 | 1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L) | 122667 |
| 34351 | ENDOSULFAN SULFATE, TOTAL (UG/L) | 1031078 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 34352 | ENDOSULFAN SULFATE, DISSOLVED (UG/L) | 1031078 |
| 34353 | ENDOSULFAN SULFATE, SUSPENDED (UG/L) | 1031078 |
| 34356 | ENDOSULFAN, BETA, TOTAL (UG/L) | 33213659 |
| 34357 | ENDOSULFAN, BETA, DISSOLVED (UG/L) | 33213659 |
| 34358 | ENDOSULFAN, BETA, SUSPENDED (UG/L) | 33213659 |
| 34361 | ENDOSULFAN, ALPHA, TOTAL (UG/L) | 959988 |
| 34362 | ENDOSULFAN, ALPHA, DISSOLVED (UG/L) | 959988 |
| 34363 | ENDOSULFAN, ALPHA, SUSPENDED (UG/L) | 959988 |
| 34371 | ETHYLBENZENE, TOTAL (UG/L) | 100414 |
| 34372 | ETHYLBENZENE, DISSOLVED (UG/L) | 100414 |
| 34373 | ETHYLBENZENE, SUSPENDED (UG/L) | 100414 |
| 34376 | FLUORANTHENE, TOTAL (UG/L) | 206440 |
| 34377 | FLUORANTHENE, DISSOLVED (UG/L) | 206440 |
| 34378 | FLUORANTHENE, SUSPENDED (UG/L) | 206440 |
| 34381 | FLUORENE, TOTAL (UG/L) | 86737 |
| 34382 | FLUORENE, DISSOLVED (UG/L) | 86737 |
| 34383 | FLUORENE, SUSPENDED (UG/L) | 86737 |
| 34386 | HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L) | 77474 |
| 34387 | HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L) | 77474 |
| 34388 | HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L) | 77474 |
| 34391 | HEXACHLOROBUTADIENE, TOTAL (UG/L) | 87683 |
| 34392 | HEXACHLOROBUTADIENE, DISSOLVED (UG/L) | 87683 |
| 34393 | HEXACHLOROBUTADIENE, SUSPENDED (UG/L) | 87683 |
| 34396 | HEXACHLOROETHANE, TOTAL (UG/L) | 67721 |
| 34397 | HEXACHLOROETHANE, DISSOLVED (UG/L) | 67721 |
| 34398 | HEXACHLOROETHANE, SUSPENDED (UG/L) | 67721 |
| 34401 | HEXACHLOROBENZENE, DISSOLVED (UG/L) | 118741 |
| 34402 | HEXACHLOROBENZENE, SUSPENDED (UG/L) | 118741 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
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| 34403 | INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L) | 193395 |
| 34404 | INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L) | 193395 |
| 34405 | INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L) | 193395 |
| 34408 | ISOPHORONE, TOTAL (UG/L) | 78591 |
| 34409 | ISOPHORONE, DISSOLVED (UG/L) | 78591 |
| 34410 | ISOPHORONE, SUSPENDED (UG/L) | 78591 |
| 34413 | METHYL BROMIDE, TOTAL (UG/L) | 74839 |
| 34414 | METHYL BROMIDE, DISSOLVED (UG/L) | 74839 |
| 34415 | METHYL BROMIDE, SUSPENDED (UG/L) | 74839 |
| 34418 | METHYL CHLORIDE, TOTAL (UG/L) | 74873 |
| 34419 | METHYL CHLORIDE, DISSOLVED (UG/L) | 74873 |
| 34420 | METHYL CHLORIDE, SUSPENDED (UG/L) | 74873 |
| 34423 | METHYLENE CHLORIDE, TOTAL (UG/L) | 75092 |
| 34424 | METHYLENE CHLORIDE, DISSOLVED (UG/L) | 75092 |
| 34425 | METHYLENE CHLORIDE, SUSPENDED (UG/L) | 75092 |
| 34428 | N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L) | 621647 |
| 34429 | N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L) | 621647 |
| 34430 | N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L) | 621647 |
| 34433 | N-NITROSODIPHENYLAMINE, TOTAL (UG/L) | 86306 |
| 34434 | N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L) | 86306 |
| 34435 | N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L) | 86306 |
| 34438 | N-NITROSODIMETHYLAMINE, TOTAL (UG/L) | 62759 |
| 34439 | N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L) | 62759 |
| 34440 | N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L) | 62759 |
| 34443 | NAPHTHALENE, DISSOLVED (UG/L) | 91203 |
| 34444 | NAPHTHALENE, SUSPENDED (UG/L) | 91203 |
| 34447 | NITROBENZENE, TOTAL (UG/L) | 98953 |
| 34448 | NITROBENZENE, DISSOLVED (UG/L) | 98953 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
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| 34449 | NITROBENZENE, SUSPENDED (UG/L) | 98953 |
| 34452 | PARACHLOROMETA CRESOL, TOTAL (UG/L) | 59507 |
| 34453 | PARACHLOROMETA CRESOL, DISSOLVED (UG/L) | 59507 |
| 34454 | PARACHLOROMETA CRESOL, SUSPENDED (UG/L) | 59507 |
| 34457 | PCB - 1242, DISSOLVED (UG/L) | 53469219 |
| 34458 | PCB - 1242, SUSPENDED (UG/L) | 53469219 |
| 34459 | PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L) | 87865 |
| 34460 | PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L) | 87865 |
| 34461 | PHENANTHRENE, TOTAL (UG/L) | 85018 |
| 34462 | PHENANTHRENE, DISSOLVED (UG/L) | 85018 |
| 34463 | PHENANTHRENE, SUSPENDED (UG/L) | 85018 |
| 34466 | PHENOL, DISSOLVED (UG/L) | 108952 |
| 34467 | PHENOL, SUSPENDED (UG/L) | 108952 |
| 34469 | PYRENE, TOTAL (UG/L) | 129000 |
| 34470 | PYRENE, DISSOLVED (UG/L) | 129000 |
| 34471 | PYRENE, SUSPENDED (UG/L) | 129000 |
| 34475 | TETRACHLOROETHYLENE, TOTAL (UG/L) | 127184 |
| 34476 | TETRACHLOROETHYLENE, DISSOLVED (UG/L) | 127184 |
| 34477 | TETRACHLOROETHYLENE, SUSPENDED (UG/L) | 127184 |
| 34481 | TOLUENE, DISSOLVED (UG/L) | 108883 |
| 34482 | TOLUENE, SUSPENDED (UG/L) | 108883 |
| 34485 | TRICHLOROETHYLENE, DISSOLVED (UG/L) | 79016 |
| 34486 | TRICHLOROETHYLENE, SUSPENDED (UG/L) | 79016 |
| 34493 | VINYL CHLORIDE, DISSOLVED (UG/L) | 75014 |
| 34494 | VINYL CHLORIDE, SUSPENDED (UG/L) | 75014 |
| 34496 | 1,1-DICHLOROETHANE, TOTAL (UG/L) | 75343 |
| 34497 | 1,1-DICHLOROETHANE, DISSOLVED (UG/L) | 75343 |
| 34498 | 1,1-DICHLOROETHANE, SUSPENDED (UG/L) | 75343 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
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| 34501 | 1,1-DICHLOROETHYLENE, TOTAL (UG/L) | 75354 |
| 34502 | 1,1-DICHLOROETHYLENE, DISSOLVED (UG/L) | 75354 |
| 34503 | 1,1-DICHLOROETHYLENE, SUSPENDED (UG/L) | 75354 |
| 34506 | 1,1,1-TRICHLOROETHANE, TOTAL (UG/L) | 71556 |
| 34507 | 1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L) | 71556 |
| 34508 | 1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L) | 71556 |
| 34511 | 1,1,2-TRICHLOROETHANE, TOTAL (UG/L) | 79005 |
| 34512 | 1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L) | 79005 |
| 34513 | 1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L) | 79005 |
| 34516 | 1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L) | 79345 |
| 34517 | 1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L) | 79345 |
| 34518 | 1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L) | 79345 |
| 34521 | BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L) | 191242 |
| 34522 | BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L) | 191242 |
| 34523 | BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L) | 191242 |
| 34526 | BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L) | 56553 |
| 34527 | BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L) | 56553 |
| 34528 | BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L) | 56553 |
| 34531 | 1,2-DICHLOROETHANE, TOTAL (UG/L) | 107062 |
| 34532 | 1,2-DICHLOROETHANE, DISSOLVED (UG/L) | 107062 |
| 34533 | 1,2-DICHLOROETHANE, SUSPENDED (UG/L) | 107062 |
| 34536 | 1,2-DICHLOROBENZENE, TOTAL (UG/L) | 95501 |
| 34537 | 1,2-DICHLOROBENZENE, DISSOLVED (UG/L) | 95501 |
| 34538 | 1,2-DICHLOROBENZENE, SUSPENDED (UG/L) | 95501 |
| 34541 | 1,2-DICHLOROPROPANE, TOTAL (UG/L) | 78875 |
| 34542 | 1,2-DICHLOROPROPANE, DISSOLVED (UG/L) | 78875 |
| 34543 | 1,2-DICHLOROPROPANE, SUSPENDED (UG/L) | 78875 |
| 34546 | TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L) | 156605 |

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| 34547 | TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L) | 156605 |
| 34548 | TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L) | 156605 |
| 34551 | 1,2,4-TRICHLOROBENZENE, TOTAL (UG/L) | 120821 |
| 34552 | 1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L) | 120821 |
| 34553 | 1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L) | 120821 |
| 34556 | 1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L) | 53703 |
| 34557 | 1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L) | 53703 |
| 34558 | 1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L) | 53703 |
| 34561 | 1,3-DICHLOROPROPENE, TOTAL (UG/L) | 542756 |
| 34562 | 1,3-DICHLOROPROPENE, DISSOLVED (UG/L) | 542756 |
| 34563 | 1,3-DICHLOROPROPENE, SUSPENDED (UG/L) | 542756 |
| 34566 | 1,3-DICHLOROBENZENE, TOTAL (UG/L) | 541731 |
| 34567 | 1,3-DICHLOROBENZENE, DISSOLVED (UG/L) | 541731 |
| 34568 | 1,3-DICHLOROBENZENE, SUSPENDED (UG/L) | 541731 |
| 34571 | 1,4-DICHLOROBENZENE, TOTAL (UG/L) | 106467 |
| 34572 | 1,4-DICHLOROBENZENE, DISSOLVED (UG/L) | 106467 |
| 34573 | 1,4-DICHLOROBENZENE, SUSPENDED (UG/L) | 106467 |
| 34576 | 2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L) | 110758 |
| 34577 | 2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L) | 110758 |
| 34578 | 2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L) | 110758 |
| 34581 | 2-CHLORONAPHTHALENE, TOTAL (UG/L) | 91587 |
| 34582 | 2-CHLORONAPHTHALENE, DISSOLVED (UG/L) | 91587 |
| 34583 | 2-CHLORONAPHTHALENE, SUSPENDED (UG/L) | 91587 |
| 34586 | 2-CHLOROPHENOL, TOTAL (UG/L) | 95578 |
| 34587 | 2-CHLOROPHENOL, DISSOLVED (UG/L) | 95578 |
| 34588 | 2-CHLOROPHENOL, SUSPENDED (UG/L) | 95578 |
| 34591 | 2-NITROPHENOL, TOTAL (UG/L) | 88755 |
| 34592 | 2-NITROPHENOL, DISSOLVED (UG/L) | 88755 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
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| 34593 | 2-NITROPHENOL, SUSPENDED (UG/L) | 88755 |
| 34596 | DI-N-OCTYL PHTHALATE, TOTAL (UG/L) | 117840 |
| 34597 | DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L) | 117840 |
| 34598 | DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L) | 117840 |
| 34601 | 2,4-DICHLOROPHENOL, TOTAL (UG/L) | 120832 |
| 34602 | 2,4-DICHLOROPHENOL, DISSOLVED (UG/L) | 120832 |
| 34603 | 2,4-DICHLOROPHENOL, SUSPENDED (UG/L) | 120832 |
| 34606 | 2,4-DIMETHYLPHENOL, TOTAL (UG/L) | 105679 |
| 34607 | 2,4-DIMETHYLPHENOL, DISSOLVED (UG/L) | 105679 |
| 34608 | 2,4-DIMETHYLPHENOL, SUSPENDED (UG/L) | 105679 |
| 34611 | 2,4-DINITROTOLUENE, TOTAL (UG/L) | 121142 |
| 34612 | 2,4-DINITROTOLUENE, DISSOLVED (UG/L) | 121142 |
| 34613 | 2,4-DINITROTOLUENE, SUSPENDED (UG/L) | 121142 |
| 34616 | 2,4-DINITROPHENOL, TOTAL (UG/L) | 51285 |
| 34617 | 2,4-DINITROPHENOL, DISSOLVED (UG/L) | 51285 |
| 34618 | 2,4-DINITROPHENOL, SUSPENDED (UG/L) | 51285 |
| 34621 | 2,4,6-TRICHLOROPHENOL, TOTAL (UG/L) | 88062 |
| 34622 | 2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L) | 88062 |
| 34623 | 2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L) | 88062 |
| 34626 | 2,6-DINITROTOLUENE, TOTAL (UG/L) | 606202 |
| 34627 | 2,6-DINITROTOLUENE, DISSOLVED (UG/L) | 606202 |
| 34628 | 2,6-DINITROTOLUENE, SUSPENDED (UG/L) | 606202 |
| 34631 | 3,3'-DICHLOROBENZIDINE, TOTAL (UG/L) | 91941 |
| 34632 | 3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L) | 91941 |
| 34633 | 3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L) | 91941 |
| 34636 | 4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L) | 101553 |
| 34637 | 4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L) | 101553 |
| 34638 | 4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L) | 101553 |

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| 34641 | 4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L) | 7005723 |
| 34642 | 4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L) | 7005723 |
| 34643 | 4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L) | 7005723 |
| 34646 | 4-NITROPHENOL, TOTAL (UG/L) | 100027 |
| 34647 | 4-NITROPHENOL, DISSOLVED (UG/L) | 100027 |
| 34648 | 4-NITROPHENOL, SUSPENDED (UG/L) | 100027 |
| 34651 | P,P'-DDD, DISSOLVED (UG/L) | 72548 |
| 34652 | P,P'-DDD, SUSPENDED (UG/L) | 72548 |
| 34653 | P,P'-DDE, DISSOLVED (UG/L) | 72559 |
| 34654 | P,P'-DDE, SUSPENDED (UG/L) | 72559 |
| 34655 | P,P'-DDT, DISSOLVED (UG/L) | 50293 |
| 34656 | P,P'-DDT, SUSPENDED (UG/L) | 50293 |
| 34657 | DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L) | 534521 |
| 34658 | DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L) | 534521 |
| 34659 | DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L) | 534521 |
| 34662 | PCB - 1221, DISSOLVED (UG/L) | 11104282 |
| 34663 | PCB - 1221, SUSPENDED (UG/L) | 11104282 |
| 34665 | PCB - 1232, DISSOLVED (UG/L) | 11141165 |
| 34666 | PCB - 1232, SUSPENDED (UG/L) | 11141165 |
| 34671 | PCB - 1016, TOTAL (UG/L) | 12674112 |
| 34672 | PCB - 1016, DISSOLVED (UG/L) | 12674112 |
| 34673 | PCB - 1016, SUSPENDED (UG/L) | 12674112 |
| 34675 | 2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L) | 1746016 |
| 34676 | 2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L) | 1746016 |
| 34677 | 2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L) | 1746016 |
| 34694 | PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L) | 108952 |
| 34696 | NAPHTHALENE, TOTAL (UG/L) | 91203 |
| 34750 | 2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L) | 1746016 |

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| 34751 | 2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L) | 1746016 |
| 34752 | 2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L) | 1746016 |
| 39032 | PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L) | 87865 |
| 39039 | HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L) | 118741 |
| 39100 | BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L) | 117817 |
| 39103 | BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L) | 117817 |
| 39104 | BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L) | 117817 |
| 39107 | PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG) | 117817 |
| 39110 | DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L) | 84742 |
| 39114 | DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L) | 84742 |
| 39115 | PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG) | 84742 |
| 39120 | BENZIDINE IN WHOLE WATER SAMPLE (UG/L) | 92875 |
| 39175 | VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L) | 75014 |
| 39180 | TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L) | 79016 |
| 39300 | P,P' DDT IN WHOLE WATER SAMPLE (UG/L) | 50293 |
| 39310 | P,P' DDD IN WHOLE WATER SAMPLE (UG/L) | 72548 |
| 39320 | P,P' DDE IN WHOLE WATER SAMPLE (UG/L) | 72559 |
| 39330 | ALDRIN IN WHOLE WATER SAMPLE (UG/L) | 309002 |
| 39331 | ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L) | 309002 |
| 39332 | ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L) | 309002 |
| 39336 | BHC-ALPHA, WATER, WHOLE (LBS/DAY) | 319846 |
| 39337 | ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L) | 319846 |
| 39338 | BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L) | 319857 |
| 39340 | GAMMA-BHC(LINDANE), WHOLE WATER (UG/L) | 58899 |
| 39341 | GAMMA-BHC(LINDANE), DISSOLVED (UG/L) | 58899 |
| 39342 | GAMMA-BHC(LINDANE), SUSPENDED (UG/L) | 58899 |
| 39344 | BHC-GAMMA, WATER, WHOLE (LBS/DAY) | 58899 |
| 39350 | CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L) | 57749 |

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| 39352 | CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L) | 57749 |
| 39353 | CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L) | 57749 |
| 39360 | DDD IN WHOLE WATER SAMPLE (UG/L) | 72548 |
| 39361 | DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L) | 72548 |
| 39362 | DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 72548 |
| 39365 | DDE IN WHOLE WATER SAMPLE (UG/L) | 72559 |
| 39366 | DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 72559 |
| 39367 | DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 72559 |
| 39370 | DDT IN WHOLE WATER SAMPLE (UG/L) | 50293 |
| 39371 | DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 50293 |
| 39372 | DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 50293 |
| 39380 | DIELDRIN IN WHOLE WATER SAMPLE (UG/L) | 60571 |
| 39381 | DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 60571 |
| 39382 | DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 60571 |
| 39390 | ENDRIN IN WHOLE WATER SAMPLE (UG/L) | 72208 |
| 39391 | ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 72208 |
| 39392 | ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 72208 |
| 39400 | TOXAPHENE IN WHOLE WATER SAMPLE (UG/L) | 8001352 |
| 39401 | TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 8001352 |
| 39402 | TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 8001352 |
| 39410 | HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L) | 76448 |
| 39411 | HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 76448 |
| 39412 | HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 76448 |
| 39420 | HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L) | 1024573 |
| 39421 | HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L) | 1024573 |
| 39422 | HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L) | 1024573 |
| 39488 | PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L) | 11104282 |
| 39492 | PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L) | 11141165 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 39496 | PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L) | 53469219 |
| 39500 | PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L) | 12672296 |
| 39501 | PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 12672296 |
| 39502 | PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 12672296 |
| 39504 | PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L) | 11097691 |
| 39505 | PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 11097691 |
| 39506 | PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 11097691 |
| 39508 | PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L) | 11096825 |
| 39509 | PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L) | 11096825 |
| 39510 | PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L) | 11096825 |
| 39700 | HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L) | 118741 |
| 39702 | HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L) | 87683 |
| 39782 | LINDANE IN WHOLE WATER SAMPLE (UG/L) | 58899 |
| 39920 | DNOC IN WHOLE WATER SAMPLE (UG/L) | 534521 |
| 46322 | LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L) | 58899 |
| 46323 | DELTA-BHC IN WHOLE WATER SAMPLE (UG/L) | 319868 |
| 46326 | HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L) | 76448 |
| 46479 | CYANIDE, DISSOLVED, WATER (UG/L) | 57125 |
| 46551 | ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L) | 7440382 |
| 46559 | CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD) | 7440439 |
| 46560 | CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT. (UG/L-CR) | 7440473 |
| 46562 | COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU) | 7440508 |
| 46564 | LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB) | 7439921 |
| 46566 | SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG) | 7440224 |
| 46567 | ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L) | 7440666 |
| 70012 | PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY) | 59507 |
| 70017 | HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY) | 77474 |
| 70021 | LEAD, (TCLP), WATER, TOTAL (MG/L) | 7439921 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | 7439976 |
| 71895 | MERCURY, SUSPENDED (UG/L AS HG) | 7439976 |
| 71900 | MERCURY, TOTAL (UG/L AS HG) | 7439976 |
| 71901 | MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L) | 7439976 |
| 71946 | CADMIUM, EXTRACTABLE (UG/L AS CD) | 7440439 |
| 71947 | CHROMIUM, EXTRACTABLE (UG/L AS CR) | 7440473 |
| 71949 | LEAD, EXTRACTABLE (UG/L AS PB) | 7439921 |
| 71950 | ZINC, EXTRACTABLE (UG/L AS ZN) | 7440666 |
| 71951 | COPPER, EXTRACTABLE (UG/L AS CU) | 7440508 |
| 73063 | CHLOROQUAIACOL,4-, TOTAL, WATER (UG/L) | 16766306 |
| 73522 | PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L) | 108601 |
| 77163 | 1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L) | 542756 |
| 77354 | 1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L) | 471432 |
| 77771 | 3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L) | 55191203 |
| 78113 | ETHYL BENZENE WHOLE WATER SAMPLE (UG/L) | 100414 |
| 78124 | BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L) | 71432 |
| 78131 | TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L) | 108883 |
| 78208 | 2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L) | 534521 |
| 78247 | CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L) | 18540299 |
| 78248 | CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L) | 57125 |
| 80357 | CHROMIUM, TRIVALENT, DISSOLVED, AS CR | 16065831 |
| 81208 | CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L) | 57125 |
| 81210 | CYANIDE - STATE OF ILLINOIS (MG/L) | 57125 |
| 81214 | CADMIUM - STATE OF ILLINOIS (MG/L)-COLD | 7440439 |
| 81215 | CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST | 18540299 |
| 81216 | CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST | 16065831 |
| 81217 | CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST | 7440473 |
| 81218 | COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST | 7440508 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 81220 | LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST | 7439921 |
| 81222 | NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST | 7440020 |
| 81223 | SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST | 7440224 |
| 81224 | ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST | 7440666 |
| 81642 | SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY) | 7440224 |
| 81750 | COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L) | 7440508 |
| 81751 | LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L) | 7439921 |
| 81752 | NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L) | 7440020 |
| 81753 | CADMIUM, INTERSTITIAL WATER FROM SEDIMENT | 7440439 |
| 81754 | ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L) | 7440666 |
| 81766 | HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG) | 1024573 |
| 81931 | MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G) | 7439976 |
| 81932 | CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G) | 7440439 |
| 81933 | ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G) | 7440666 |
| 81934 | LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G) | 7439921 |
| 81936 | LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L) | 7439921 |
| 81937 | CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L) | 7440439 |
| 81938 | CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L) | 7440473 |
| 81939 | COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L) | 7440508 |
| 81940 | ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L) | 7440666 |
| 81941 | CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L) | 7440473 |
| 81942 | COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L) | 7440508 |
| 81943 | ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L) | 7440666 |
| 82058 | CHROMIUM, TOTAL, PERCENT REMOVAL | 7440473 |
| 82399 | CHROMIUM, HEXAVALENT (KG/BATCH) | 18540299 |
| 82512 | M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L) | 541731 |
| 82573 | CYANIDE/CHLORINATION IN WATER (MG/L) | 57125 |
| 82621 | HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L) | 118741 |

| STORET Code | Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.- | C.A.S. Number |
|------------------------|-----------------------------------------------------------------------------|--------------------------|
| 82622 | ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L) | 7421934 |
| 82623 | ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L) | 1031078 |
| 82624 | ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L) | 33213659 |
| 82626 | 1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L) | 122667 |
| 82627 | PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L) | 59507 |
| 85006 | ZINC, TOTAL - (#/DAY) | 7440666 |
| 85007 | CHROMIUM, TOTAL (#/DAY) | 7440473 |
| 85010 | NICKEL, TOTAL - (#/DAY) | 7440020 |
| 85013 | MERCURY, TOTAL - (#/DAY) | 7439976 |

Appendix H

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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.